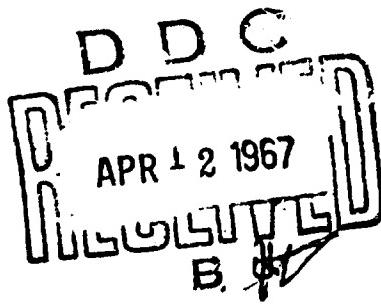


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# Bibliography of Low Energy Electron Collision Cross Section Data

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United States Department of Commerce  
National Bureau of Standards  
Miscellaneous Publication 289

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<sup>1</sup> Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D. C. 20234.

<sup>2</sup> Located at Boulder, Colorado, 80302.

<sup>3</sup> Located at 5285 Port Royal Road, Springfield, Virginia, 22151.

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Bibliography Of Low Energy  
Electron Collision Cross Section Data

L. J. Kieffer

Laboratory Astrophysics Division  
Institute for Basic Standards  
National Bureau of Standards  
Boulder, Colorado 80302



National Bureau of Standards Miscellaneous Publication 289

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BIBLIOGRAPHY OF LOW ENERGY ELECTRON  
COLLISION CROSS SECTION DATA†

L. J. Kieffer

A bibliography of low energy electron collision cross section data is presented. Only references which report original measurements or calculations of electron collision cross sections are included. The cross section data for each process are listed by atomic species in order of their atomic number. The data for molecules are listed in arbitrary order.

Key Words: atom, molecule, electron, collision cross section

INTRODUCTION

The Joint Institute for Laboratory Astrophysics (JILA) maintains an Information Center for collecting reports which contain information of interest to plasma physicists and astrophysicists. Because of the availability of information from other data centers, our scope is confined to low energy atomic collision data. Our obligation to the National Standard Reference Data System requires that we make available to the general scientific and technical community critically evaluated data for electron and photon collisions with atoms and simple molecules.

This Bibliography has been issued previously in report form (JILA Reports #4 and #34, and JILA Information Center Report #2). All previous versions of this bibliography, and this one, have included all of the bibliographic material in our files at the time of publication. The current literature for this publication was searched through October 1966. Because we rely upon the abstracting journals to obtain references from sources which do not in general contain information of interest, there may be some material from late 1966 which is not included in this bibliography. The current scientific literature will be searched for this material on a continuing basis and all future bibliographic material will be issued in conjunction with the publication of critically evaluated data.

† This research was supported in part by the Advanced Research Projects Agency (Project DEFENDER), monitored by the U. S. Army Research Office-Durham, under Contract DA-31-124-ARO-D-139, and in part by the National Bureau of Standards through the National Standard Reference Data Program.

### Electron Scattering Cross Section Bibliography

The criterion used in choosing the references for this bibliography is that the publication contain original measurements or calculations of electron cross sections in the energy range 0 to 10 KeV for specific atomic or molecular targets. The upper limit on the energy was not used as an absolute limit but indicates the order of magnitude of interest. This means that one should not expect to find electron collision cross sections in the range of 50 KeV and above.

Papers containing the following quantities, which are not explicitly cross sections, have also been collected:

1. phase shifts,
2. scattering lengths,
3. ionization efficiencies,
4. excitation efficiencies.

The reason for including these quantities is that under the proper conditions cross sections have been or can be simply derived from them.

Published manuscripts, theses, reports given at meetings, and company or agency reports which have been printed and circulated are included in the bibliography. However, reference is not made to material that is unavailable either through library facilities or government document centers. (No classified material is included.)

There is a tendency for authors to publish material which is identical to that which they have reported on at a meeting (which is printed and circulated) and also issued as a company or agency report. In some cases it is possible to verify that this is so and in those cases only one reference (the formal publication if there is one) is kept in our bibliography. In most cases it is not possible to make such a precise distinction among such documents, since only some of the material may have been made available before. Because of this, there may be cases of duplication in the sense that there may be more than one reference to the same original data. We have tried to keep this to a minimum consistent with our aim of collecting all published data.

Inclusion of a reference in this bibliography does not imply a value judgment about the accuracy of the information. We only assert that this reference reports a measured or calculated electron collision cross section (or the equivalent as described previously). The question of the accuracy of the data is to be covered in separate published critical reviews [see, for example, Reviews of Modern Physics, 38, 1, (1966)].

### Description of the Bibliography Format

The Electron Cross Section Bibliography is divided into three main sections. The first section describes the data which are in the references included in the bibliography. The data are categorized by a

hierarchy of descriptors in the following order:

1. Process (e.g., elastic scattering, electronic excitation, etc.)
2. Experimental or Theoretical
3. Normalized or Relative  
(The data are considered normalized if given in absolute units.)
4. Atomic or Molecular Species including the degree of ionization of the species.  
(A negative ion is indicated by a minus sign; neutral unexcited species by a blank; neutral excited species by a star; and a positive ion by a number indicating the degree of positive ionization. All of these symbols follow the atomic species, which are listed in ascending order of nuclear charge, Z. Molecular species are listed in arbitrary order.)
5. The references in which the data described are found.  
The references are identified by an arbitrary file number, the first author and the year of publication (e.g., 63 implies 1963).

The following comments about categories (see Contents) are necessary in order to use the bibliography properly. Category ELASTIC SCATTERING, for theoretical papers, includes all references to elastic scattering cross section computations except differential elastic scattering cross section references, which are given in a separate category. In the case of experimental papers only those references in which cross section measurements were reported with energy discrimination for the scattered electrons are included under ELASTIC SCATTERING.

Category TOTAL SCATTERING includes theoretical papers which give a total cross section which is the sum of elastic and inelastic cross sections. It also includes any references to experimentally determined cross sections in which the experiment does not distinguish between elastically and inelastically scattered electrons even if the experiment is carried out in an energy range in which only elastic scattering is expected.

The second section lists the title, authors and complete reference for the paper cited. These are ordered by their "file" number.

The abbreviations for journal titles are taken from Chemical Abstracts or if not abstracted there, from Science Abstracts, Section A: Physics Abstracts.

The third section consists of an alphabetical author index. After each name is a list of the "file" numbers of articles authored or co-authored to be found in the bibliographic section.

The author would like to gratefully acknowledge the assistance of the staff of the JILA Information Center. The computer programs used for this report were written by Patricia Ruttenberg. The manuscript was prepared by Mary Ann Lefler and Elizabeth Hosack.

ELECTRON PAPERS

TOTAL ELASTIC SCATTERING		THEORETICAL		
NORMALIZED		NORMALIZED		
N	9333 CODY,64	N	6498 SCHWARTZ,61	
ME	8273 ALLEN,37	8274 GOLDAN,63	6499 TENKIN,62	
	8230 WESTIN,69	8237 LANGMUIR,28	6502 TENKIN,62	
	8734 GRAHAM,54		6527 CHIDWAB,69	
ME	8273 ALLEN,37	8230 WESTIN,69	6543 STAVER,67	
	8237 LANGMUIR,28	8734 GRAHAM,54	6593 MITTELMAN,62	
NA	8679 DEHMELT,58		6561 OMURA,60	
			6571 MCNECHRAN,61	
AR	8273 ALLEN,37	8292 ENGELHARDT,64	7066 TENKIN,61	
	8230 WESTIN,69	8237 LANGMUIR,28	7116 VERLENKO,64	
	8734 GRAHAM,54	1999 MAZING,66	7244 MCNECHRAN,63	
NR	8739 CHEN,63		8012 ROBINSON,61	
RB	8622 BALLING,64		8026 DAMBURG,63	
RE	8739 CHEN,63		8046 MALIK,64	
CS	1346 BALLING,64	1999 MAZING,66	8056 SMITH,60	
MG	8069 ARNUT,55	8237 LANGMUIR,28	8099 JOHN,60	
M2	8266 ENGELHARDT,53	8237 LANGMUIR,28	8104 KYLE,64	
M2	8381 LASSETTRE,57	8237 LANGMUIR,28	8135 OCHKUR,58	
C 0	8374 LASSETTRE,53		8006 SCHWARTZ,62	
D2	8266 ENGELHARDT,53		1009 ROSENBERG,65	
RELATIVE				
N	1493 KLEINHOPP,47	1999 MAZING,66	1092 SLOAN,64	
ME	8100 SCHULZ,63	8217 SCHULZ,63	1097 GAILLITIS,65	
	8514 FLEMING,63	8220 SCHULZ,64	1098 DAMBURG,65	
	1367 KUYATT,65		1122 SMITH,62	
ME	8052 ARNOT,31	8300 SCHULZ,63	1126 SARAPH,61	
	8229 SCHULZ,64	1004 HUGHES,33	1132 LIPPMANN,61	
	1367 KUYATT,65		1174 BONERVILLE,63	
AR	8020 HUGHES,32	8090 BULLARD,31	1176 BURKE,63	
	8052 ARNOT,31	1367 KUYATT,65	1182 BAKER,62	
R	8010 FRANKEN,60		1183 BAKER,62	
RR	8052 ARNOT,31	8220 SCHULZ,64	1187 KANG,66	
	1367 KUYATT,65		1193 MCGEEVY,65	
RE	8052 ARNOT,31	8220 SCHULZ,64	1197 TIEFTZ,65	
	1367 KUYATT,65		1202 HORSE,33	
MG	1367 KUYATT,65		1205 MCGRATH,62	
M2	8052 ARNOT,31	1000 KUYATT,65	1212 ALLIS,31	
M2	1071 KUYATT,65		1236 BYATT,56	
C 0	8052 ARNOT,31	8220 SCHULZ,64	1249 TIEFTZ,59	
C 0	8052 ARNOT,31		1249 NOISEIUTSCH,61	
C 0	8052 ARNOT,31	8300 SCHULZ,63	1253 NOISEIUTSCH,61	
C 0	8052 ARNOT,31		1262 TIEFTZ,60	
C 0	8052 ARNOT,31		1267 ZWICHT,23	
C 0	8052 ARNOT,31		1281 MARTINEK,64	
C 0	8052 ARNOT,31		1282 RELL,64	
M 0	1071 KUYATT,65		1294 HABIBIOTT,64	
M 0	1071 KUYATT,65		1307 HABIBIOTT,64	
D2	1071 KUYATT,65	8300 SCHULZ,63	1314 MALIK,61	
TOTAL ELASTIC SCATTERING				
THEORETICAL		THEORETICAL		
N	8050 CROJALD,61,63	7032 BILTMANKEVICH,62	N	8004 PILTYANKEVICH,60
	8054 BILTMANKEVICH	8035 BILTMANKEVICH,62	N	8004 PILTYANKEVICH,60
	8063 BILTMANKEVICH	8127 BILTMANKEVICH	O	8004 PILTYANKEVICH,60
	8131 BILTMANKEVICH	8142 BILTMANKEVICH	C	8004 PILTYANKEVICH,60
	8161 BILTMANKEVICH	8200 BILTMANKEVICH,60	1107 KIRKSELL,60	
	8273 BILTMANKEVICH	8205 BILTMANKEVICH,60	1110 KIRKSELL,61	
	8276 BILTMANKEVICH	8207 BILTMANKEVICH,60	C	8004 PILTYANKEVICH,60
	8311 BILTMANKEVICH	8301 BILTMANKEVICH,60	1110 KIRKSELL,61	
	8344 BILTMANKEVICH	8306 BILTMANKEVICH,60	1110 KIRKSELL,61	
	8363 BILTMANKEVICH	8309 BILTMANKEVICH,60	1110 KIRKSELL,61	
	8363 BILTMANKEVICH	8319 BILTMANKEVICH,60	1110 KIRKSELL,61	
	8404 BILTMANKEVICH	8322 BILTMANKEVICH,60	1110 KIRKSELL,61	
	8416 BILTMANKEVICH	8326 BILTMANKEVICH,60	1110 KIRKSELL,61	
	8457 BILTMANKEVICH	8346 BILTMANKEVICH,60	1110 KIRKSELL,61	
	8461 BILTMANKEVICH	8403 BILTMANKEVICH,60	1110 KIRKSELL,61	
NORMALIZED				

TOTAL ELASTIC SCATTERING			THEORETICAL	DIFFERENTIAL ELASTIC SCATTERING EXPERIMENTAL		
NORMALIZED				NORMALIZED		
O	0697 HAMMERLING,57 0812 ROBINSON,61 0920 MITRA,60 1565 HYERSCOLLICH,65 1832 SEATON,52		0597 BYATT,59 0821 BAUER,64 1057 COOPER,62 1690 LEHMANDE,66	H	1031 GILBODY,61	
F	0572 HOERNI,53		1057 COOPER,62	HE	0165 HUGHES,32 0637 LANGMUIR,28 1277 MOHR,36	0330 WESTIN,49 0995 BOONHICH,37
NE	0860 OMALLEY,63 0245 HOLTMARK,29 0409 TIETZ,59 0471 HOISEINITSCH,61 0821 BAUER,64 1059 BIBERMAN,64		0166 ALLIS,31 0267 BULLARD,30 0449 KIVEL,59 0695 HOISEINITSCH,63 0844 FRENKIEL,62	HE	0167 BERNAN,49 0637 LANGMUIR,28	0330 WESTIN,49
NA	0100 ALLIS,31 0518 DAMBURG,60 0950 GARRETT,65 1032 SALMONA,61 1491 KARULE,65 1520 SALMONA,63 1542 KARULE,65 1664 KARULE,65 2092 PETERKOP,65		0499 SALMONA,59 0812 ROBINSON,61 1023 SALMONA,61 1469 KARULE,65 1498 GARRETT,65 1523 GARRETT,66 1567 SALMONA,65 1835 KARULE,65	H2	0637 LANGMUIR,28	
MA	1 0422 SEATON,57			C 0	0374 LASSETTRE,53	
CL	0267 BULLAND,30		1057 COOPER,62	C M4	0190 EDMISTEN,49	
AR	0060 OMALLEY,63 0100 ALLIS,31 0397 BARBIERE,51 0459 KIVEL,59 0495 HOISEINITSCH,63 0810 MARTYENKO,63 0873 KARLE,66 1577 BRACKETT,63		0099 HOLTMARK,29 0185 HOLTMARK,28 0449 KIVEL,59 0671 HOISEINITSCH,61 0697 ZUCHY,23 0821 BAUER,64 1059 BIBERMAN,64 1690 LEHMANDE,66	H	0230 HARNWELL,29 1593 KLEINPOPPIEN,65	1512 MCGRATH,65
K	0810 DAMBURG,60 1465 KARULE,65 1523 GARRETT,64 1664 KARULE,65 2002 PETERKOP,65		0059 BARRATT,64 1491 KARULE,65 1542 KARULE,65 1865 KARULE,65	HE	0003 DYNOND,27 0053 BULLARD,31 0158 MA. NELL,29 0253 DYNOND,29 1470 EHRHARDT,45	0011 McMILLEN,30 0120 POULINKEV,34 0193 JERNIG,31 1001 HUGHES,34 1529 EHRHARDT,45
CA	0551 KAMENETSCHI,60		1448 BELT,64	M E	0052 ARNOT,31 0059 MOHR,32 0158 HARNWELL,29	0053 BULLARD,31 0137 NICOLL,33 1004 HUGHES,33
ZN	0100 ALLIS,31			AR	0011 McMILLEN,30 0022 WEBB,35 0052 ARNOT,31 0129 RAMSAUER,31	0020 HUGHES,32 0049 BULLARD,31 0059 MOHR,32 0837 PORTELS,64
KR	0060 OMALLEY,63 0446 KIVEL,59 0495 HOISEINITSCH,63 0921 BAUER,64		0104 HOLTMARK,30 0471 HOISEINITSCH,61 0818 MARTYENKO,63	ZN	0064 CHILDS,33	
AE	0060 OMALLEY,63 0810 MARTYENKO,63		0449 KIVEL,59	KR	0022 WEBB,35	0052 ARNOT,31
CS	0036 GARRETT,63 0810 DAMBURG,60 1465 KARULE,65 1523 GARRETT,64 1664 KARULE,65 1897 CROWN,65		0359 STONE,63 1393 CROWN,65 1491 KARULE,65 1542 KARULE,65 1665 KARULE,65 2002 PETERKOP,65	CG	0062 CHILDS,33	
MG	0557 KAMENETSCHI,60 0592 GAJEWSKI,58		0562 TIEZ,59	XE	0052 ARNOT,31	
TL	0100 ALLIS,31			AU	1111 REICHERT,63	
U	0572 HOERNI,53 0705 KARLE,64		0592 GAJEWSKI,58	MG	0050 ARNOT,31 0144 ARNOT,32 0191 ARNOT,29 0245 ARNOT,33 1082 JORDAN,34 1427 DEICHSEL,65 1475 ROSE,30	0137 NICOLL,33 0164 BABEE,33 0219 JORDAN,33 0486 KESSLER,65 1425 DEICHSEL,61 1431 STFOLV,65 1596 DEICHSEL,66
M2	0034 FISK,36 0251 MASSEY,30 0421 CANTER,58 0434 CARSON,54 1816 OKSYUR,66		0854 MASSEY,32 0411 NAGAHARA,54 0428 MASSEY,56 1492 TAKAYANAGI,65	H2	0011 McMILLEN,30 0031 WEBB,35 0057 ARNOT,31 0124 RAMSAUER,31 0230 HARNWELL,29	0023 HUGHES,32 0052 ARNOT,31 0159 MOHR,32 0158 HARNWELL,29 1303 BEIGER,64
N2	0034 FISK,36 1452 TAKAYANAGI,65 1452 CHEN,66		0895 CHEN,64 1816 OKSYUR,66	N2	0057 ARNOT,31 0159 MOHR,32 0198 HARNWELL,29	0053 BULLARD,31 0138 MASSEY,33
H20	0385 ALTHULER,57			C 0	0052 ARNOT,31	
U M3	0385 ALTHULER,57			M 2	0065 ARNOT,34	
C M4	0070 BUCKINGHAM,41			H25	0059 MOHR,32	
P M3				C M3	0059 MOHR,32	
C CL4				C 02	0059 MOHR,32	0126 RAMSAUER,31
C2M4				C 0	0052 ARNOT,31	
C2M6				C M4	1286 CHILDS,34	1287 MILL,36
				C2M6	1286 CHILDS,34	

## DIFFERENTIAL ELASTIC SCATTERING EXPERIMENTAL

## RELATIVE

C F4 1287 MILL+36

## DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

## NORMALIZED

M 0025 MORSE+33  
 0083 BURKE+63  
 0151 BURKE+62  
 0244 BELTMAN+60  
 0416 BRANSDEN+50  
 0511 BOROWITZ+56  
 0567 WU+60  
 0879 HALIN+67  
 0903 PU+63  
 0935 OCHKUR+58  
 1022 SMITH+62  
 1030 TEMKIN+61  
 1461 SCOTT+65

H 0025 MORSE+33  
 0221 FEENBERG+32  
 0383 SACHL+59  
 0544 MOISEIWITSCH+59  
 0976 LABAHN+64  
 1056 INOKUTI+61  
 1308 GHOSH+35  
 1408 KHANE+65  
 1817 ORIENT+66

ME 0025 MORSE+33  
 0221 FEENBERG+32  
 0383 SACHL+59  
 0544 MOISEIWITSCH+59  
 0976 LABAHN+64  
 1056 INOKUTI+61  
 1308 GHOSH+35  
 1408 KHANE+65  
 1817 ORIENT+66

ME + 0935 OCHKUR+58

C 0884 PILYANKEVICH+60

BE 2 0984 PILYANKEVICH+60

B 0884 PILYANKEVICH+60

C 2 0984 PILYANKEVICH+60

C 4 0984 PILYANKEVICH+60

N 1579 BRACKETT+63

D 0409 TIETZ+59

F 0572 HOERNI+53

NA 1865 KARULE+65

NA 1 0719 SEATON+58

S 1176 TIETZ+60

CL 0745 TIETZ+60

AR 0409 TIETZ+59  
 1579 BRACKETT+63

K 0821 BAUER+66  
 1864 KAHULE+65

BR 1152 ARNOT+34

KR 0156 ARNOT+34

CS 1865 KARULE+65

AU 1646 SCHONFELDER+66

MG 0109 BUNYAN+63  
 1646 SCHONFELDER+66

BI 1646 SCHONFELDER+66

U 0572 HOERNI+53

H2 0251 MASSEY+30  
 1408 KHARE+65

BR2 1152 ARNOT+34

RELATIVE

H 0068 MASSEY+34

## DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

## RELATIVE

HE 0051 MASSEY+31  
 0068 MASSEY+34  
 0639 MORSE+32

HE 1 0440 BRANSDEN+53

O 0068 MOTT+30

F 1287 MILL+36

CL 1287 MILL+36

AR 0655 HENNEBERG+33

KR 0113 VOSS+33  
 1294 HUGHES+35

HG 0653 HENNEBERG+32

H2 0054 MASSEY+32  
 0463 GRZYNSKI+64

N2 0138 MASSEY+33

C2H2 0726 HUGHES+33

C H4 0070 BUCKINGHAM+61

C CL4 1287 MILL+36

C2H4 0726 HUGHES+33

C F4 1287 MILL+36

## ELECTRONIC EXCITATION EXPERIMENTAL

## NORMALIZED

H 0321 FITE+59  
 0327 LICHTEN+59  
 0936 SCHULTZ+60

ME 0056 LEES+32  
 0124 DORRESTEIN+62  
 0192 FRANCIS+47  
 0338 CARRIGAN+58  
 0373 LASSETTRE+53  
 0464 FRISH+58  
 34PS LIN+62  
 0600 PHELPS+58  
 0742 ST JOHN+60  
 0799 SILVERMAN+64  
 0871 FLEMING+63  
 1049 ST JOHN+64  
 1265 JONES+68  
 1455 MILLER+64  
 1583 ZAPESOCNYI+65  
 1760 LASHMORE-DAVIES+65  
 1895 ZAPESOCNYI+65

ME + 0759 RODEN+63

HE 1 1863 DANCE+66

LI 0773 FELDMAN+63

HE 0122 MILATZ+40  
 0124 DORRESTEIN+62  
 0205 MADEISH+63  
 0637 LANGMUIR+28  
 1339 MADEISH+65  
 1584 REVALD+65

NA 0141 LOVERIDGE+31  
 0614 VOLKOVA+61  
 1683 ZAPESOCNYI+65

AR 0187 BERMAN+69  
 0637 LANGMUIR+28  
 1823 ZAPESOCNYI+66

K 0141 LOVERIDGE+31  
 0344 VOLKOVA+59  
 0749 VOLKOVA+59  
 1517 ZAPESOCNYI+65  
 1680 ZAPESOCNYI+65

FE 0929 BELOUSOVA+61

KR 0474 VOLKOVA+60

PB 0773 FELDMAN+63  
 1517 ZAPESOCNYI+65

1072 HUGHES+64

0123 DORRESTEIN+62  
 0187 BERMAN+69  
 0288 HERRMANN+38  
 1094 TIEN+64  
 1971 FRISH+63

0200 CHRISTOPH+35  
 1517 ZAPESOCNYI+65

0288 HERRMANN+38  
 0755 VOLKOVA+59

0275 FABRIKANT+39  
 0505 VOLKOVA+62  
 0773 FELDMAN+63  
 1533 VOLKOVA+63

1823 ZAPESOCNYI+66

NORMALIZED			RELATIVE			
	ELECTRONIC EXCITATION	EXPERIMENTAL		ELECTRONIC EXCITATION	EXPERIMENTAL	
CD	1758 PENKIN,66		NA	0015 MICHELS,31	0111 HAFT,33	
HE	0474 VOLKOVA,60	1823 ZAPESOCNYI,66		0506 ZAPESOCNYI,62	1078 ZAPESOCNYI,63	
HE	1 0474 VOLKOVA,60			1648 ZAPESOCNYI,61		
CS	0279 HOMLER,32	1467 NOLAN,65	AR	0020 HUGHES,32	0058 HOMR,32	
	1517 ZAPESOCNYI,65	1801 ZAPESOCNYI,66		0063 NICOLL,33	0067 WHIDDINGTON,36	
	1910 KORCHEVOI,66	1972 ZAPESOCNYI,66		0115 FISCHER,33	0119 MAIER-LEIBNITZ,35	
SA	1 0929 BELOUSOVA,61			0178 MINKOWSKI,23	0304 MANLE,52	
MG	0021 TATE,32	0069 ARNOT,35		0344 VOLKOVA,59	0692 KUYATT,63	
	0176 JONGERIUS,61	0303 RIEDE,56		0037 PORTEUS,66	0960 SKERBELE,60	
	0513 JONGERIUS,61	0623 CROZIER,28		1301 OLMSTED,65	1411 RAFF,62	
	0637 LANGMUIR,28			1527 CHAMBERLAIN,65	1776 KUPRIYANOV,66	
TL	0121 STRUMMEIER,37		ZN	0105 LARCHE,31	1077 ZAPESOCNYI,63	
H2	0181 FROST,62	0260 ENGELHARDT,63		1079 ZAPESOCNYI,63		
	0321 FITE,58	0327 LICHTEN,59	KR	0178 MINKOWSKI,23	0607 DEVYATOV,55	
	0354 CURRIGAN,58	0637 LANGMUIR,28		0692 KUYATT,63	1301 OLMSTED,65	
	0652 LUNT,62	0804 LASSETTRE,64		1325 GUK,57	1776 KUPRIYANOV,66	
	0921 LEGLER,63	1265 JONES,69	KR	1 1325 GUK,57		
O2	0376 LASSETTRE,54	0377 SILVERMAN,57	RB	1078 ZAPESOCNYI,63		
	0381 LASSETTRE,57	0652 LUNT,62	AG	0289 FUHRMANN,39		
	0794 LASSETTRE,64	0798 LASSETTRE,64	CD	0105 LARCHE,31	0180 MINKOWSKI,23	
	1310 SCHULZ,62			0504 ZAPESOCNYI,62	1079 ZAPESOCNYI,63	
N2	0218 ENGELHARDT,64	0375 LASSETTRE,53		1648 ZAPESOCNYI,61		
	0378 SILVERMAN,57	0381 LASSETTRE,57	HE	0178 MINKOWSKI,23	0304 MANLE,52	
	0637 LANGMUIR,28	0652 LUNT,62		0308 KUYATT,64	0692 KUYATT,63	
	0813 LASSETTRE,64	0857 SILVERMAN,65		1325 GUK,57	1776 KUPRIYANOV,66	
	0921 LEGLER,63	1296 WILLIAMS,35	HE	1 1325 GUK,57		
H20	0382 LASSETTRE,58		CS	0478 BOGDANOVA,60	1040 ZAPESOCNYI,64	
C 02	0380 SHILDOFF,57	1205 MEYER,65		1078 ZAPESOCNYI,63		
C 0	0372 LASSETTRE,53	0374 LASSETTRE,53	MG	0040 NOTTINGHAM,39	0058 HOMR,32	
	0794 LASSETTRE,64	0803 LASSETTRE,64		0078 ZAPESOCNYI,61	0092 MANLE,30	
	0968 SKERBELE,66			0096 VETTERLIN,39	0109 THIEME,32	
C M4	0190 EDMISTEN,69	0192 FRANCIS,47		0112 ORNSTEIN,33	0114 SEILEN,33	
C2M6	0190 EDMISTEN,69			0115 FISCHER,33	0137 NICOLL,33	
RELATIVE				0142 FABRIKANT,37	0164 GADE,33	
M	0110 ORNSTEIN,33	0269 ORNSTEIN,35		0173 VAN VOORHIS,34	0176 JONGERIUS,61	
	0532 KLEINOPPEN,62	0609 GAILITIS,63		0178 HANLE,29	0180 MINKOWSKI,23	
	0629 HUGHES,23	0922 CHAMBERLAIN,64		0191 ARNOT,29	0222 BOGDANOVA,63	
HE	0003 DYNOND,27	0011 MCMLLEN,30		0226 OSTENSEN,29	0231 BRATTAIN,29	
	0027 HUGHES,33	0058 HOMR,32		0262 SCHAFFERNICHT,30	0315 JONGERIUS,46	
	0063 NICOLL,33	0067 WHIDDINGTON,34		0319 SCHULZ,58	0476 BOGDANOVA,60	
	0100 ORNSTEIN,30	0108 THIEME,32		0513 JONGERIUS,60	0546 SMIT,56	
	0119 MAIER-LEIBNITZ,35	0120 POUTLON,7,34		0534 LEE,39	0635 WHITE,26	
	0158 HARNWELL,29	0173 VAN VOORHIS,34		0556 BRICOUT,28	0665 WHITNEY,29	
	0178 MINKOWSKI,23	0223 SMIT,35		0580 FRISH,54	0816 SIEBERTZ,31	
	0226 MICHELS,30	0227 LAM,57		0682 ZAPESOCNYI,62	0865 BAKIS,59	
	0239 GLOCKLER,29	0253 DYNOND,29		1077 ZAPESOCNYI,63	1079 ZAPESOCNYI,63	
	0263 HANLE,29	0293 PRIESTLY,35		1153 ENDE,20	1233 FRISH,56	
	0304 HANLE,52	0319 SCHULZ,58		1275 VALASEK,27	1290 ROZGACHEV,50	
	0328 SCHULZ,59	0321 SMIT,59		1324 BOGDANOVA,59	1475 ROSE,30	
	0492 MCFARLAND,63	0510 MCFARLAND,62		1321 ZAPESOCNYI,65	1534 BOGDANOVA,63	
	0513 JONGERIUS,60	0516 SMIT,63		1570 SMIT,65	1775 FYODOROV,65	
	0519 MEDOLE,63	0521 MCFARLAND,62	TL	0249 FUHRMANN,38		
	0581 LASSETTRE,64	0564 ST JOHN,62	PO	0249 FUHRMANN,39		
	0612 LASSETTRE,65	0620 COLES,37		H2	0059 HOMR,32	0063 NICOLL,33
	0628 HUGHES,23	0651 LEES,29		0158 HARNWELL,29	0173 VAN VOORHIS,34	
	0663 HERTZ,25	0661 HOMR,34		0232 BARSEFIELD,29	0270 KPUTHOF,35	
	0692 KUYATT,63	0747 MCFARLAND,64		0319 SCHULZ,59	0987 COOLIDGE,44	
	0753 DOLGOV,59	0880 MAURER,34		1301 OLMSTED,65	1303 GEIGER,64	
	0912 ST JOHN,61	0968 SKERBELE,60		1411 RAFF,62	1485 BIEHNICH,65	
	1027 HIBBISON,61	1073 MCFARLAND,64		1692 HEIDEMAN,66		
	1076 ZAPESOCNYI,63	1090 SCHULZ,58	N2	0059 HOMR,32	0108 THIEME,32	
	1148 ELEMBAAS,30	1304 CHAMBERLAIN,65		0137 NICOLL,33	0158 HARNWELL,29	
	1411 RAFF,62	1417 CHAMBERLAIN,65		0328 SCHULZ,59	0334 STEWART,58	
	1513 MEDOLE,63	1521 ZAPESOCNYI,65		0475 ZAPESOCNYI,60	0612 LASSETTRE,65	
	1527 CHAMBERLAIN,65	1572 CERMACK,66		0632 LANGSTROTH,34	0752 KISHKU,59	
	1568 EMHARDT,65	1753 DOERING,65		0953 STEWART,58	0960 SKERBELE,60	
	1776 KUPRIYANOV,66	1781 CERMACK,66		0980 THOMPSON,34	1157 RUWERO,30	
	1839 MEMLHORN,66	1982 DOERING,66		1298 LANGSTROTH,35	1301 OLMSTED,65	
L1	1566 HAFNER,65			1312 LANGSTROTH,35	1400 WINTERS,65	
ME	0059 HOMR,32	0119 MAIER-LEIBNITZ,35		1480 LASSETTRE,65	1451 SKERBELE,65	
	0137 NICOLL,33	0152 HANLE,30		1597 GEIGER,65	1644 ZAPESOCNYI,61	
	0158 HARNWELL,29	0178 MINKOWSKI,23		1670 MEYER,66	1692 HEIDEMAN,66	
	0268 MILATZ,38	0663 HERTZ,25				
	0662 KUYATT,63	1076 ZAPESOCNYI,63	N2	1 0039 BUNDY,37	0343 ZAPESOCNYI,59	
	1153 ENDE,20	1301 OLMSTED,65		0757 KISHKU,60		
	1648 ZAPESOCNYI,61	1776 KUPRIYANOV,66	H20	0559 SCHULZ,60	0968 SKERBELE,60	
N 1 0067 WHIDDINGTON,34				1411 RAFF,62	1419 SKERBELE,65	
				1481 SKERBELE,65	1624 SKERBELE,66	
			N M3	0968 SKERBELE,60	1483 SKERBELE,65	



ELECTRONIC EXCITATION		THEORETICAL	ELECTRONIC EXCITATION		THEORETICAL
NORMALIZED			NORMALIZED		
NE	1876 VELDRE,65	1681 BOIKOVA,65	P	11 0792 VARSAVSKY,61	
	1866 VELDRE,65	1867 VELDRE,65	P	12 0792 VARSAVSKY,61	
NE	2 0404 SEATON,53	0484 SEATON,55	S	1 0404 SEATON,53	0442 CZYZAK,64
NE	3 0404 SEATON,53	0484 SEATON,55		0484 SEATON,55	
NE	4 0404 SEATON,53	0484 SEATON,55	S	2 0442 CZYZAK,64	1696 BELY,66
NE	5 0792 VARSAVSKY,61		S	4 0792 VARSAVSKY,61	
NE	6 0792 VARSAVSKY,61	1850 BELY,66	S	6 0792 VARSAVSKY,61	
NE	7 0792 VARSAVSKY,61		S	8 0792 VARSAVSKY,61	
NA	0155 SEATON,62	0431 SEATON,55	S	11 0792 VARSAVSKY,61	
	0452 GRZYINSKI,59	0497 SOMERVILLE,61	CL	3 0442 CZYZAK,64	1696 BELY
	1014 GRZYINSKI,65	1823 SALMONA,61			
	1072 HUGHES,64	1115 OCHKUR,63	CL	10 0792 VARSAVSKY,61	
	1251 BARNES,65	1319 VELDRE,65	CL	11 0792 VARSAVSKY,61	
	1414 LANE,64	1469 KARULE,65	CL	12 0792 VARSAVSKY,61	
	1474 VAINSHTEIN,64	1520 SALMONA,63			
	1546 VAINSHTEIN,61	1587 SALMONA,65	K	1072 HUGHES,64	1699 KARULE,65
	1793 BIELSKI,65	1813 VAINSHTEIN,64		1813 VAINSHTEIN,64	
NA	0568 LANE,64		AR	1867 VELDRE,65	
NA	3 0404 SEATON,53	0484 SEATON,55	AR	4 0442 CZYZAK,64	1696 BELY,66
NA	4 0404 SEATON,53	0484 SEATON,55	AR	7 0792 VARSAVSKY,61	
NA	5 0792 VARSAVSKY,61		AR	11 0792 VARSAVSKY,61	
NA	6 0792 VARSAVSKY,61		AR	12 0792 VARSAVSKY,61	
NA	7 0792 VARSAVSKY,61		AR	13 0792 VARSAVSKY,61	
NA	8 0792 VARSAVSKY,61		K	1072 HUGHES,64	
MG	1 0775 BELY,63	1053 VAN REGENMERTER,60		1813 VAINSHTEIN,64	
	1122 VAN REGENMERTER,60		K	7 0792 VARSAVSKY,61	
MG	4 0504 SEATON,53	0484 SEATON,55	K	9 0792 VARSAVSKY,61	
	0792 VARSAVSKY,61		K	12 0792 VARSAVSKY,61	
MG	5 0792 VARSAVSKY,61		K	13 0792 VARSAVSKY,61	
MG	6 0792 VARSAVSKY,61		CA	1448 BELY,66	
MG	7 0792 VARSAVSKY,61		CA	1 0720 VAN REGENMERTER,60	1056 VAN REGENMERTER,61
MG	8 0792 VARSAVSKY,61			1122 VAN REGENMERTER,60	1876 PETRINI,65
MG	9 0775 BELY,63	0792 VARSAVSKY,61	CA	7 0792 VARSAVSKY,61	
AL	4 0792 VARSAVSKY,61		CA	8 0792 VARSAVSKY,61	
AL	5 0792 VARSAVSKY,61		CA	14 0792 VARSAVSKY,61	
AL	6 0792 VARSAVSKY,61		SC	4 0792 VARSAVSKY,61	
AL	7 0792 VARSAVSKY,61		SC	7 0792 VARSAVSKY,61	
AL	8 0792 VARSAVSKY,61		SC	9 0792 VARSAVSKY,61	
AL	9 0792 VARSAVSKY,61		SC	10 0792 VARSAVSKY,61	
AL	10 0792 VARSAVSKY,61		TI	4 0792 VARSAVSKY,61	
SI	1 0714 SEATON,58	0909 SEATON,55	TI	7 0792 VARSAVSKY,61	
SI	3 0775 BELY,63		TI	10 0792 VARSAVSKY,61	
SI	5 0792 VARSAVSKY,61		TI	11 0792 VARSAVSKY,61	
SI	6 0792 VARSAVSKY,61		V	4 0792 VARSAVSKY,61	
SI	7 0792 VARSAVSKY,61		V	7 0792 VARSAVSKY,61	
SI	8 0792 VARSAVSKY,61		V	8 0792 VARSAVSKY,61	
SI	9 0792 VARSAVSKY,61		V	9 0792 VARSAVSKY,61	
SI	10 0792 VARSAVSKY,61		V	10 0792 VARSAVSKY,61	
SI	11 0792 VARSAVSKY,61		V	11 0792 VARSAVSKY,61	
P	6 0792 VARSAVSKY,61		V	12 0792 VARSAVSKY,61	
P	7 0792 VARSAVSKY,61		CR	7 0792 VARSAVSKY,61	
P	8 0792 VARSAVSKY,61				
P	9 0792 VARSAVSKY,61				
P	10 0792 VARSAVSKY,61				

ELECTRONIC EXCITATION		THEORETICAL		ELECTRONIC EXCITATION		THEORETICAL	
<b>NORMALIZED</b>				<b>NORMALIZED</b>			
CR 8 0792 VARSAVSKY,61				N2 1 1557 BAUER,65		1588 BAUER,65	
CR 9 0792 VARSAVSKY,61				M2O 0294 NIIRA,69			
CR 10 0792 VARSAVSKY,61				N O 1557 BAUER,65		1588 BAUER,65	
CR 11 0792 VARSAVSKY,61				RELATIVE			
CR 12 0792 VARSAVSKY,61				ME 0284 MASSEY,33		0386 BARANGER,57	
CR 13 0792 VARSAVSKY,61				0639 HORSE,32		1267 JONES,36	
MN 8 0792 VARSAVSKY,61				N 0484 SEATON,55			
MN 9 0792 VARSAVSKY,61				O 1 0876 ALLER,50			
MN 10 0792 VARSAVSKY,61				O 2 0876 ALLER,50			
MN 11 0792 VARSAVSKY,61				NE 0068 MASSEY,34			
MN 12 0792 VARSAVSKY,61				AR 0068 MASSEY,34			
MN 13 0792 VARSAVSKY,61				CA 1 0963 JEFFERIES,54			
MN 14 0792 VARSAVSKY,61				Mu 0019 PENNEY,32			
FE 1 0909 SEATON,55				M2 0987 COOLIDGE,44			
FE 7 1963 CZYZAK,66				D2 0987 COOLIDGE,44			
FE 9 0792 VARSAVSKY,61							
FE 10 0792 VARSAVSKY,61							
FE 11 0792 VARSAVSKY,61							
FE 12 0792 VARSAVSKY,61							
FE 13 0437 BLAMA,62	0485 MILL,51						
0547, BELY,62	0792 VARSAVSKY,61						
0923 WOOLLEY,48							
FE 14 0792 VARSAVSKY,61							
FE 15 0775 BELY,63	0792 VARSAVSKY,61						
1932 KRUEGER,65							
CO 10 0792 VARSAVSKY,61							
CO 11 0792 VARSAVSKY,61							
CO 12 0792 VARSAVSKY,61							
CO 13 0792 VARSAVSKY,61							
CO 14 0792 VARSAVSKY,61							
CO 15 0792 VARSAVSKY,61							
CO 16 0792 VARSAVSKY,61							
NI 11 0792 VARSAVSKY,61							
NI 12 0792 VARSAVSKY,61							
NI 13 0792 VARSAVSKY,61							
NI 14 0792 VARSAVSKY,61							
NI 15 0792 VARSAVSKY,61							
NI 16 0792 VARSAVSKY,61							
NI 17 0792 VARSAVSKY,61							
R2 1072 HUGHES,64	1013 VAINSHTEIN,64						
CS 1063 HANNEN,64	1072 HUGHES,64						
1450 WITTING,65	1469 KARULE,65						
1813 VAINSHTEIN,64							
CS 1 1272 SHIELDON,65							
WA 1 1876 PETRINI,65							
HE 0 0202 YAVORSKY,66	0272 YAVORSKY,68						
0452 GRYZINSKI,59	1414 LAME,64						
HE 0 1103 YAVORSKY,67							
H2 0048 ROBSCOE,41	0194 MASSEY,32						
HE 1 1055 PEK,66	1392 CALLAWAY,65						
O2 1557 BAUER,65	1588 BAUER,65						
N2 1557 BAUER,65	1588 BAUER,65						
<b>ELECTRON DETACHMENT</b>		<b>EXPERIMENTAL</b>		<b>ELECTRON DETACHMENT</b>		<b>THEORETICAL</b>	
<b>NORMALIZED</b>				<b>NORMALIZED</b>			
H - 1880 TISONE,66		H - 1880 TISONE,66		H - 0470 McDOWELL,63		1125 GELTMAN,60	
				1483 TIETZ,63		1764 SHIRNOV,66	
				O - 0365 MATANAH-E,50		1463 ROBINSON,65	
CL - 1300 MASSEY,36							
<b>DE-EXCITATION</b>		<b>EXPERIMENTAL</b>		<b>DE-EXCITATION</b>		<b>THEORETICAL</b>	
<b>NORMALIZED</b>				<b>NORMALIZED</b>			
HE 0 0569 PHELPS,68		HE 0 0426 MARRIOTT,57		HE 0 0470 McDOWELL,63		1658 MARRIOTT,66	
CS 0 0279 MOHLER,32		O 0 0366 YAMANOUCHI,60		1125 GELTMAN,60		1764 SHIRNOV,66	
<b>RELATIVE</b>				CS 0 1486 WITTING,65		1463 ROBINSON,65	
HE 0 0102 LATYSCHEFF,30							
<b>DE-EXCITATION</b>		<b>THEORETICAL</b>		<b>NORMALIZED</b>		<b>THEORETICAL</b>	
<b>NORMALIZED</b>				<b>NORMALIZED</b>			
HE 0 0426 MARRIOTT,57		HE 0 0470 McDOWELL,63		HE 0 0426 MARRIOTT,57		1658 MARRIOTT,66	
O 0 0366 YAMANOUCHI,60		O 0 0366 YAMANOUCHI,60		O 0 0366 YAMANOUCHI,60		1658 MARRIOTT,66	
CS 0 1486 WITTING,65		CS 0 1486 WITTING,65		CS 0 1486 WITTING,65		1658 MARRIOTT,66	
HE 0 0202 YAVORSKY,66		HE 0 0202 YAVORSKY,66					

IONIZATION		EXPERIMENTAL		IONIZATION		EXPERIMENTAL		
NORMALIZED				NORMALIZED				
M	0320 FITE,56 0978 ROTHE,62	0491 BOYD,60 1106 BOKSENBERG,61		CS	1104 MCFARLAND,65 1875 HETL,66		1217 BRINK,64 1972 ZAPESOCNYI,66	
ME	0002 COMPTON,25 0225 SMITH,30 0340 LAMPE,57 0626 ASUNDI,63 0743 ASUNDI,63 0799 SILVERMAN,64 0974 HARRISON,56 1105 ENGLANDER-GOLDEN,64 1329 FOX,61 1706 SCHRAM,66 1858 ADAMCZYK,66 1895 ZAPESOCNYI,65	0829 LISKA,34 0335 BOYD,68 0373 LASSETTRE,53 0674 COMPTON,10 0787 HUGHES,63 0942 ST JON,64 0995 BODORICH,37 1281 SCHRAM,65 1459 RAPP,65 1706 SCHRAM,66 1963 SCHRAM,66		SA	1502 MCFARLAND,65			
ME	0200 FITE,63			HB	0002 COMPTON,25 0021 TATE,32 0846 NOTTINGHAM,39 0224 SMITH,31 0303 RIEDE,54 1329 FOX,61	0004 JONES,27 0029 LISKA,34 0069 ARNOT,35 0228 BLEAKNEY,30 0974 HARRISON,56		
ME	1 0907 DOLDER,61			HG	1 0723 LATPOV,64 2 0723 LATPOV,64			
LI	0773 FELDMAN,63	1104 MCFARLAND,65		TL	1502 MCFARLAND,65			
LI	1 1421 LINEBERGER,65			H2	0002 COMPTON,25 0041 NEWHALL,42 0320 FITE,58 0340 LAMPE,57 1105 ENGLANDER-GOLDEN,64 1281 SCHRAM,65 1748 SCHRAM,66 1863 SCHRAM,66	0018 TATE,32 0261 ENGELHARDT,63 0335 BOYD,58 0974 HARRISON,56 1106 BOKSENBERG,61 1459 RAPP,65 1858 ADAMCZYK,66		
N	0831 PETERSON,64	1200 SMITH,62		O2	0018 TATE,32 0334 STEWART,58 0377 SILVERMAN,57 0861 PRASAD,61 0946 GLICK,64 1105 ENGLANDER-GOLDEN,64 1281 SCHRAM,65 1748 SCHRAM,66 1863 SCHRAM,66	0323 FITE,59 0340 LAMPE,57 0853 CRAIGGS,57 0938 ASUNDI,63 1075 SILVERMAN,64 1106 BOKSENBERG,61 1289 SCHULZ,62 1748 SCHRAM,66 1863 SCHRAM,66		
N	1 0261 HARRISON,63			N2	0002 COMPTON,25 0153 COOK,62 0340 LAMPE,57 0857 SILVERMAN,65 0992 SHERIDAN,61 1106 BOKSENBERG,61 1281 SCHRAM,65 1459 RAPP,65 1748 SCHRAM,66	0018 TATE,32 0333 STEWART,56 0831 PETERSON,64 0946 GLICK,64 1105 ENGLANDER-GOLDEN,64 1123 MAYAKAWA,66 1329 FOX,61 1504 MCCONKEY,65 1863 SCHRAM,66		
O	0323 FITE,59 0978 ROTHE,62	0602 JAHODA,62 1106 BOKSENBERG,61		H20	0340 LAMPE,57		1702 SCHUTTEN,66	
ME	0002 COMPTON,25 0225 SMITH,30 0626 ASUNDI,63 0831 PETERSON,64 1281 SCHRAM,65 1459 RAPP,65 1748 SCHRAM,66 1863 SCHRAM,66	0612 BLEAKNEY,30 0340 LAMPE,57 0626 ASUNDI,63 0831 PETERSON,64 1105 ENGLANDER-GOLDEN,64 1329 FOX,61 1706 SCHRAM,66 1863 SCHRAM,66		N H3	0340 LAMPE,57			
ME	1 0264 DOLDER,63	0723 LATPOV,64		N O	0018 TATE,32 0946 GLICK,64 1459 RAPP,65	0340 LAMPE,57		
NA	0888 FUNK,30 1217 BRINK,64	1104 MCFARLAND,65 1663 ZAPESOCNYI,65		C 02	0340 LAMPE,57 0938 ASUNDI,63 1105 ENGLANDER-GOLDEN,64 1700 NISHIMURA,66	0865 CRAIGGS,60 0948 SHALLA,60 1459 RAPP,65		
NA	1 1568 HOOPER,66			C 0	0018 TATE,32 0867 CRAIGGS,58 1105 ENGLANDER-GOLDEN,64 1459 RAPP,65	0340 LAMPE,57 0938 ASUNDI,63 1329 FOX,61		
AN	0002 COMPTON,25 0225 SMITH,30 0357 TOZER,60 0743 ASUNDI,63 0946 GLICK,64 1201 SCHRAM,65 1459 RAPP,65 1748 SCHRAM,66	0012 BLEAKNEY,30 0340 LAMPE,57 0626 ASUNDI,63 0831 PETERSON,64 1105 ENGLANDER-GOLDEN,64 1329 FOX,61 1706 SCHRAM,66 1863 SCHRAM,66		C 2M2	0018 TATE,32	0340 LAMPE,57		
AR	1 0723 LATPOV,64			N 20	1105 ENGLANDER-GOLDEN,64 1771 LATIMER,65	1459 RAPP,65		
AR	2 0723 LATPOV,64			C 02	0340 LAMPE,57 0938 ASUNDI,63 1105 ENGLANDER-GOLDEN,64 1700 NISHIMURA,66	0340 LAMPE,57		
K	0088 FUNK,30 1104 MCFARLAND,65	0773 FELDMAN,63 1217 BRINK,64		C 0	0018 TATE,32 0867 CRAIGGS,58 1105 ENGLANDER-GOLDEN,64 1459 RAPP,65	0340 LAMPE,57 0938 ASUNDI,63 1329 FOX,61		
K	1 1568 HOOPER,66			H 20	0002 COMPTON,25	0340 LAMPE,57		
CA	1502 MCFARLAND,65			C 04	0340 LAMPE,57 0946 GLICK,64 1459 RAPP,65	0340 LAMPE,57		
ZN	1687 POTTE,66			H 25	0340 LAMPE,57	1105 ENGLANDER-GOLDEN,64		
KR	0340 LAMPE,57 0626 ASUNDI,63 1105 ENGLANDER-GOLDEN,64 1459 RAPP,65 1748 SCHRAM,66	0357 TOZER,60 0703 ASUNDI,63 1281 SCHRAM,65 1706 SCHRAM,66 1863 SCHRAM,66		H D	1396 BRAGLIA,65	1459 RAPP,65		
KR	1 0723 LATPOV,64			D 2	0260 ENGBELHARDT,63 1281 SCHRAM,65 1863 SCHRAM,66	1105 ENGLANDER-GOLDEN,64		
KR	2 0723 LATPOV,64			C 2M2	0340 LAMPE,57	1459 RAPP,65		
RB	0773 FELDMAN,63 1217 BRINK,64	1104 MCFARLAND,65		C 04	1690 SCHRAM,66	1863 SCHRAM,66		
SR	1502 MCFARLAND,65			H 25	0340 LAMPE,57			
AG	1081 LYUHMOV,63			C 02	0260 ENGBELHARDT,63 1281 SCHRAM,65 1863 SCHRAM,66	1105 ENGLANDER-GOLDEN,64		
CD	1687 POTTE,66			C 04	0340 LAMPE,57	1459 RAPP,65		
AE	0340 LAMPE,57 0626 ASUNDI,63 1105 ENGLANDER-GOLDEN,64 1459 RAPP,65 1748 SCHRAM,66	0357 TOZER,60 0703 ASUNDI,63 1281 SCHRAM,65 1706 SCHRAM,66 1863 SCHRAM,66		C 2M2	0340 LAMPE,57	1690 SCHRAM,66		
AE	1 0723 LATPOV,64			S P6	0940 ASUNDI,64	1459 RAPP,65		
AE	2 0723 LATPOV,64			C 43CL	0340 LAMPE,57			
				C 04	1690 SCHRAM,66	1863 SCHRAM,66		
				TEP	1687 POTTE,66			

	IONIZATION	EXPERIMENTAL		IONIZATION	EXPERIMENTAL
RELATIVE			RELATIVE		
M	1508 MCGOWAN,65		RE	0216 TATE,34	0203 FIGUET-FAYARD,62
HE	0027 HUGHES,33 0066 MOHR,34 0304 HANLE,52 0339 OTVOS,56 0525 KRAUSS,59 0625 JESSE,25 0704 HICKAM,54 0986 BLANC,62 1215 HUTCHISON,64 1373 SIMPSON,65 1530 MAIDT,65 1919 FIGUET-FAYARD,65	0035 BLEAKNEY,36 0280 FITE,63 0331 STANTON,60 0353 FOX,58 0530 HAYAKAWA,53 0692 KUYATT,63 0777 BRINK,61 1877 ZAPESOCHNYI,63 1846 MORRISON,53 1930 FIGUET-FAYARD,65 1871 LIPELES,65	SR	0203 FIGUET-FAYARD,63	1978 DE MARIA,65
LI	0150 BRINK,62		AG	0566 BLAIS,60	1978 DE MARIA,65
C	0659 CRAWFORD,62		CD	0313 HICKAM,54	1978 DE MARIA,65
HE	0012 BLEAKNEY,30 0213 STEVENSON,42 0280 FITE,63 0304 HANLE,52 0481 CLOUTIER,59 0625 JESSE,25 0704 HICKAM,54 1039 KANEKO,61 1244 MORRISON,53 1453 STUBER,65	0066 MOHR,34 0242 MORRISON,59 0280 FITE,56 0339 OTVOS,56 0525 KRAUSS,59 0692 KUYATT,63 0777 BLANC,62 1069 DORMAN,61 1373 SIMPSON,65 1920 ZIESEL,65	TE	1578 DE MARIA,65	
NE	0290 FITE,63		HE	0216 TATE,34 0271 FOX,54 0308 KUYATT,64 0353 FOX,56 0525 KRAUSS,59 0692 KUYATT,63 0707 FOX,60 0986 BLANC,62 1069 DORMAN,59 1107 MORRISON,66 1244 MORRISON,53	0242 MORRISON,59 0304 HANLE,52 0310 FOX,53 0481 CLOUTIER,59 0591 BURNS,64 0692 KUYATT,63 0694 CLARKE,54 1034 FONER,61 1070 DORMAN,61 1137 KISER,62 1453 STUBER,65
NE	1 0713 KUPRIYANOV,64		XE	1 0713 KUPRIYANOV,64	
NA	0150 BRINK,62 0466 DIBELER,59 1919 FIGUET-FAYARD,65	0216 TATE,34 1039 KANEKO,61 1920 ZIESEL,65	XE	2 0713 KUPRIYANOV,64	
ME	1039 KANEKO,61	1920 ZIESEL,65	CS	0216 TATE,34	
AL	0659 CRAWFORD,62		AU	0566 BLAIS,60	
AR	0012 BLEAKNEY,30 0213 STEVENSON,42 0280 FITE,63 0304 HANLE,52 0483 COTTIN,59 0539 HAYAKAWA,55 0692 KUYATT,63 0777 FOX,61 0986 MELTON,62 1034 FONER,61 1069 DORMAN,59 1107 BECKER,64 1162 FIGUET-FAYARD,62 1373 SIMPSON,65 1530 FIGUET-FAYARD,65	0066 MOHR,34 0242 MORRISON,59 0283 FIGUET-FAYARD,63 0339 OTVOS,56 0525 KRAUSS,59 0625 JESSE,25 0704 HICKAM,54 0781 FOX,60 0986 BLANC,62 1038 KANEKO,61 1070 DORMAN,61 1124 FIGUET-FAYARD,62 1244 MORRISON,53 1453 STUBER,65 1919 FIGUET-FAYARD,65	HE	0012 BLEAKNEY,30 0066 MOHR,34 0215 BELL,36 1078 DORMAN,61 1244 MORRISON,53	0014 HAUPP,31 0211 MCPADDEN,46 0313 HICKAM,54 1098 BLEAKNEY,29 1578 DE MARIA,65
AR	0 0280: FITE,63		HE	1 0713 KUPRIYANOV,64	
AR	1 0713 KUPRIYANOV,64		HE	2 0713 KUPRIYANOV,64	
K	0150 BRINK,62 0283 FIGUET-FAYARD,63 1124 FIGUET-FAYARD,62 1919 FIGUET-FAYARD,65	0216 TATE,34 1039 KANEKO,61 1530 FIGUET-FAYARD,65	U	1261 MANN,64	
CA	0283 FIGUET-FAYARD,63 1124 FIGUET-FAYARD,62	1048 KANEKO,63	H2	0209 BLEAKNEY,30 0242 MOHR,34 0255 SHYTH,24 0539 HAYAKAWA,55 0625 JESSE,25 0704 HICKAM,54 0781 FOX,60 0986 BLANC,62 1038 KANEKO,61 1124 FIGUET-FAYARD,62 1244 MORRISON,53 1453 STUBER,65 1919 FIGUET-FAYARD,65	0041 NEWHALL,42 0170 BAERNALD,25 0339 OTVOS,56 0539 HAYAKAWA,55 0625 JESSE,25 0660 KALLMANN,27 1164 BRIGLIA,65 1303 BEIGER,34 1504 MCGOWAN,65
FE	1874 COOPER,66		02	0167 RANDOLPH,58 0255 SHYTH,24 0339 OTVOS,56 0528 FROST,59 0985 BRION,64 1108 DORMAN,63	0214 HABSTRUM,41 0334 STEWART,58 0341 FROST,58 0778 DORMAN,60 1089 MCGOWAN,64
CO	1874 COOPER,66		42	0017 VAUGHAN,31 0214 HABSTRUM,41 0339 OTVOS,56 0528 FROST,55 0625 JESSE,25 0778 DORMAN,60 0953 STEWART,55 1068 DORMAN,61 1244 MORRISON,53 1530 FIGUET-FAYARD,65 1987 HAYAKAWA,65	0066 MOHR,34 0271 FOX,54 0523 FROST,55 0660 KALLMANN,27 0854 CLARKE,54 1038 KANEKO,61 1108 DORMAN,63 1509 FINEMAN,65 1648 ZAPESOCHNYI,61
NI	1874 COOPER,66		N 43	1068 DORMAN,61	1930 FIGUET-FAYARD,65
CU	0566 BLAIS,62		N 40	0214 HABSTRUM,41 0554 CLARKE,54 1530 FIGUET-FAYARD,65	0081 CLOUTIER,59 1068 DORMAN,61 1448 ZAPESOCHNYI,61
ZN	0283 FIGUET-FAYARD,63 1167 FIGUET-FAYARD,63	0313 HICKAM,54 1978 DE MARIA,65	CL2	0526 FROST,59	0700 FROST,60
SE	1978 DE MARIA,65		N 20	0339 OTVOS,56 1916 CONNOLLY,65	1067 CURRAN,41
KR	0216 TATE,34 0310 FOX,53 0410 BURNS,61 0524 FROST,57 0692 KUYATT,63 0781 FOX,60 0986 BLANC,62 1038 KANEKO,61 1107 MORRISON,64 1215 HUTCHISON,64 1453 STUBER,65 1919 FIGUET-FAYARD,65	0283 FIGUET-FAYARD,63 0339 OTVOS,56 0523 FROST,55 0526 FROST,59 0704 HICKAM,54 0986 MELTON,62 1034 FONER,61 1070 DORMAN,61 1137 KISER,62 1244 MORRISON,53 1530 FIGUET-FAYARD,65	C 02	0339 OTVOS,56 0467 ASUNDI,64 1244 MORRISON,53 1919 FIGUET-FAYARD,65	0531 COLLIN,60 1068 DORMAN,61 1530 FIGUET-FAYARD,65
KR	1 0713 KUPRIYANOV,64	1492 BAKER,65	C 0	0017 VAUGHAN,31 0271 FOX,54 0339 OTVOS,56 0526 FROST,59 0961 FINEMAN,62 1068 DORMAN,61 1668 ZAPESOCHNYI,61	0214 HABSTRUM,41 0310 FOX,53 0485 JESSE,25 1038 KANEKO,61 1096 HOGNESS,28 1742 CUTHEBERT,66
KR	2 0713 KUPRIYANOV,64		B 22	0700 FROST,60	

	IONIZATION	EXPERIMENTAL	IONIZATION	THEORETICAL
RELATIVE			NORMALIZED	
M CL	0339 OTVOS+56 1244 MORRISON+53	0707 FOX+60	ME	1345 LEE+65 1484 KUREPA+63 1554 LYASH+63 1557 BAUER+63 1788 BYRON+66
C MO	0466 MANN+34 0524 FROST+57 0625 JESSE+55	0339 OTVOS+56 0539 MAYAKAWA+55	ME	1060 VRIENS+64
I2	0524 FROST+59	0708 FROST+60	ME	1 0057 BURGESS+63 0735 BURGESS+60 1060 VRIENS+64 1772 RUDGE+65
M2S	0339 OTVOS+56	1530 FIQUET-FAYARD+65	ME	0417 BURGESS+61 0892 BURGESS+63 1436 BURKE+65
P M3	0339 OTVOS+56		LI	1 0570 GRYZINSKI+63 1014 GRYZINSKI+65 1146 HU+44 1272 SHELDON+65 1299 McDOWELL+65 1502 MCFARLAND+65
C S2	0339 OTVOS+56	0531 COLLIN+60	LI	0873 PEACH+64 1044 DRAWIN+61 1190 HU+40 1273 PEACH+65 1464 MCFARLAND+65 1655 PEACH+66
H D	0539 MAYAKAWA+55		LI	1 1044 DRAWIN+61
D2	0539 MAYAKAWA+55		LI	2 1044 DRAWIN+61
C2M4	0339 OTVOS+56	0539 MAYAKAWA+55	RE	1273 PEACH+65 1655 PEACH+66
C2M6	0339 OTVOS+56		N	0453 SEATON+59 1557 BAUER+65
H2Z	0211 MCFADDEN+46		O	0453 SEATON+59 1557 BAUER+65
C M3CL	0339 OTVOS+56	0524 FROST+57	O	0 4 0143 TREFFTZ+63
C M3BR	0339 OTVOS+56	0524 FROST+57	O	5 0143 TREFFTZ+63
C M3I	0339 OTVOS+56	0524 FROST+57	NE	0147 NEU+58 0455 HILL+51 1115 OCHKUR+63 1463 ROBINSON+65 1506 KINGSTON+65
I CL	0708 FROST+60		NE	1 1060 VRIENS+64
I BR	0708 FROST+60		NE	1 1060 VRIENS+64
H2O2	1132 FONER+62		NA	1272 SHELDON+65 1476 PRESNYAKOV+65 1654 PEACH+66
C2N2	0339 OTVOS+56		NG	1502 MCFARLAND+65 1655 PEACH+66
H C N	0339 OTVOS+56		AR	0147 NEU+58 1014 GRYZINSKI+65 1457 VRIENS+65 1484 KUREPA+63 1557 BAUER+65
C M3F	0924 FROST+57		K	1272 SHELDON+65 1502 MCFARLAND+65
U O	1261 MANN+64		CA	1502 MCFARLAND+65
SE2	1578 DE MARIA+65		CA	1 0960 ZIRIN+62
SE2	1578 DE MARIA+65		FE	13 0443 SCHWARTZ+59 1056 KULANDER+63
S2	1578 DE MARIA+65		FE	14 1849 RUDGE+66
NORMALIZED			FE	15 1849 RUDGE+66
M	0661 MASSEY+33 0282 YAVORSKY+45 0390 GELTMAN+56 0461 MORAND+59 0587 KOGAN+59 0825 KINGSTON+64 0844 VELDRE+64 0852 PETERKOP+59 0892 BURGESS+63 0996 AHENIUS+60 1044 DRAWIN+61 1115 OCHKUR+63 1165 MICHAEL+63 1273 PEACH+65 1436 BURKE+65 1458 OMIDVAR+65 1476 PRESNYAKOV+65 1544 RUUGE+65 1568 VELDRE+63 1595 KINGSTON+65 1648 RUDGE+66 1679 VINKALNS+65	0101 VELDRE+62 0307 STAUFFER+63 0424 MCCARROLL+57 0533 GELTMAN+63 0671 STABLER+64 0829 PETERKOP+59 0848 OMIDVAR+64 0863 GRYZINSKI+64 0913 AKERIB+61 1014 GRYZINSKI+65 1071 OMIDVAR+64 1129 PETERKOP+62 1262 PRASAD+65 1426 VELDRE+62 1457 VRIENS+65 1472 VELDRE+65 1501 OCHKUR+65 1547 VELDRE+63 1582 VELDRE+65 1655 PEACH+66 1878 VINKALNS+65	AR	1 1060 VRIENS+64
M *	0307 STAUFFER+63 0430 SWAN+55 1071 OMIDVAR+64 1458 OMIDVAR+65 1595 KINGSTON+65 1694 KINGSTON+66	0413 MCCREA+60 0848 OMIDVAR+64 1436 BURKE+65 1526 OMIDVAR+65 1656 PRASAD+66 1848 RUUGE+66	K	1272 SHELDON+65 1502 MCFARLAND+65
ME	0024 METZEL+33 0147 NEU+58 0452 GRYZINSKI+59 0705 ITOM+60 0863 GRYZINSKI+64 1014 GRYZINSKI+65 1046 VRIENS+64 1273 PEACH+65	0881 MASSEY+33 0390 GELTMAN+56 0455 HILL+51 0838 VAN DE WALLE+61 0999 METZEL+36 1044 DRAWIN+61 1119 OCHKUR+63 1302 SLUAN+65	CA	1502 MCFARLAND+65
			SR	1502 MCFARLAND+65
			SR	1 0960 ZIRIN+62
			AB	9140 BURNOP+40 0455 HILL+51 1014 GRYZINSKI+65
			SN	49 0057 BURGESS+63
			XE	0147 NEU+58 1484 KUREPA+63

	IONIZATION	THEORETICAL	DISSOCIATION	EXPERIMENTAL
<b>NORMALIZED</b>				
C S	1165 MICHAEL,63 1502 MCFARLAND,65	1464 MCFARLAND,65	O2 0167 RANDOLPH,58 0778 DORMAN,60	0526 FROST,59
CC *	1272 SHELDON,65		H2O 0924 MANN,40	
WA	1502 MCFARLAND,65		N H3 0924 MANN,40	
MG	0140 BURNOP,60 0642 PRASAD,63 1060 VRIENS,64 1557 BAUER,65	0455 MILL,51 0783 YAVORSKY,47 1115 OCHKUR,63	N O 0481 CLOUTIER,59 CL2 0708 FROST,60 C O 0778 DORMAN,60	0941 FINEMAN,62
MG *	1060 VRIENS,64		B2 0708 FROST,60	
TL	1502 MCFARLAND,65		I2 0526 FROST,59 0778 DORMAN,60	0708 FROST,60
NO	1558 BAUER,65		C CL4 0950 MARRIOTT,54	1231 CRAGGS,52
H2	0147 NEU,58 0455 MILL,51 0863 GRYZINSKI,64 1064 URWINKEN,61 1457 VRIENS,65 1558 BAUER,65	0452 GRYZINSKI,59 0570 GRYZINSKI,63 1014 GRYZINSKI,65 1115 OCHKUR,63 1557 BAUER,64	<b>DISSOCIATION THEORETICAL</b>	
O2	0642 PRASAD,63 1557 BAUER,65	1457 VRIENS,65 1558 BAUER,65	<b>NORMALIZED</b>	
N2	0147 NEU,58 1457 VRIENS,65 1558 BAUER,65	0642 PRASAD,63 1557 BAUER,65	H2 0194 MASSEY,32 1862 KHARE,66	0695 EUELSTEIN,58
N O	1557 BAUER,65		H2 I 0370 IVASH,59 1465 PEEK,65	0394 KERNETH,53
C2H2	1557 BAUER,65	1558 BAUER,65	H2O 0294 NIIRA,49	
C O	0642 PRASAD,63 1558 BAUER,65	1557 BAUER,65	<b>RELATIVE</b>	
C H4	0210 INOKUTI,62		H2 0033 SASAKI,35	
<b>RELATIVE</b>				
H	1144 DE LA RIPELLE,49		<b>FREE-FREE EMISSION THEORETICAL</b>	
HE	1144 DE LA RIPELLE,49	1673 MITTELMAN,66	<b>NORMALIZED</b>	
NE	1144 DE LA RIPELLE,49		H 1414 LANE,64	
NA	1144 DE LA RIPELLE,49		H I 1414 LANE,64	
AR	1144 DE LA RIPELLE,49		N 0256 DEVURE,64	0939 BREENE,61
KR	1144 DE LA RIPELLE,49		N I 0256 DEVURE,64	
AG	1144 DE LA RIPELLE,49		O 0574 BREENE,63	
AE	1144 DE LA RIPELLE,49		<b>DISSOCIATIVE IONIZATION EXPERIMENTAL</b>	
H2	0005 KRAUSS,57		<b>NORMALIZED</b>	
D2	0005 KRAUSS,57		H2 0041 NEWHALL,42 1410 RAPP,65	1105 ENGLANDER-BOLDEN,64 1058 ADAMCZYK,66
<b>DISSOCIATION EXPERIMENTAL</b>				
<b>NORMALIZED</b>				
H2	0260 ENBELHARDT,63 1506 CORNIGAN,65	0384 CORRIGAN,58	O2 0946 GLICK,64 1410 RAPP,65	1105 ENGLANDER-BOLDEN,64
H2 I	1501 DUNN,65	1503 DUNN,65	N2 0153 COOR,62 1105 ENGLANDER-BOLDEN,64	0946 GLICK,64 1410 RAPP,65
O2	0376 LASSETTRE,54 1075 SILVERMAN,64	0377 SILVERMAN,57 1460 RAPP,65	H2O 1782 SCHUTTEN,66	
N2	0992 SHERIDAN,61		N O 0946 GLICK,64 1410 RAPP,65	1105 ENGLANDER-BOLDEN,64
H2O	0302 LASSETTRE,50		N2O 1105 ENGLANDER-BOLDEN,64	1410 RAPP,65
N O	1460 RAPP,65		C O2 1105 ENGLANDER-BOLDEN,64	1410 RAPP,65
N2O	1460 RAPP,65		C O 1105 ENGLANDER-BOLDEN,64	1410 RAPP,65
C O2	1460 RAPP,65		C H4 0946 GLICK,64 1410 RAPP,65	1105 ENGLANDER-BOLDEN,64 1058 ADAMCZYK,66
C O	1460 RAPP,65		O2 1105 ENGLANDER-BOLDEN,64	
O2	0260 ENBELHARDT,63		<b>RELATIVE</b>	

DISSOCIATIVE IONIZATION		EXPERIMENTAL	RADIATIVE ATTACHMENT		EXPERIMENTAL
RELATIVE			RELATIVE		
M2	0007 SASAKI,35 0041 NEWHALL,42 0130 SASAKI,41 0214 MAGSTRUM,41 0384 DUNN,43 0456 BAUER,47 0668 KALLMANN,27	0009 BLEAKNEY,30 0187 MAGSTRUM,51 0135 SASAKI,35 0255 SHYTH,26 0491 STEVENSON,62 0495 SCHAEFFER,50 1402 LOZIER,50	R 1774 POPP,65 I 0830 STEINER,64		
O2	0107 MAGSTRUM,51 0255 SHYTH,26 0526 FROST,59	0214 MAGSTRUM,41 0341 FROST,58 0770 DORMAN,60	RADIATIVE ATTACHMENT		THEORETICAL
N2	0017 VAUGHAN,31 0214 MAGSTRUM,41 0667 TATE,32 0953 STEWART,55	0107 MAGSTRUM,51 0660 KALLMANN,27 0854 CLARKE,54 1943 BRIGLIA,64	NORMALIZED		
M20	0298 SJOURNEN,63 0924 HANN,48	0483 COTTIN,59	M 1166 JEN,33 1316 LOCANTE-HOLTGREVEN,58	1700 MASSET,36	
N M3	0924 HANN,48		O 0247 YAMANOUCHI,40 1180 MASSEY,63	1141 HATES,43 1197 BRANSCOMBE,57	
N O	0107 MAGSTRUM,51 0481 CLOUTIER,59 1691 DORMAN,60	0214 MAGSTRUM,41 1918 HANSON,37	NA 0297 HUANG,65	1300 MASSET,36	
CL2	0526 FROST,59	0708 FROST,40	CL 1300 MASSEY,36		
M20	1667 CURMAN,61	1691 DORMAN,60	M8 1300 MASSEY,36		
C O	0017 VAUGHAN,31 0214 MAGSTRUM,41 0778 DORMAN,60 1096 HOOGNESS,26	0107 MAGSTRUM,51 0667 TATE,32 0941 FINCHMAN,62 1742 CUTMBERT,66	DISSOCIATIVE RECOMBINATION		EXPERIMENTAL
NR2	0708 FROST,60		O2 1 1344 BIONDI,64		
M CL	1510 HANSON,37		N2 1 0698 FAIRE,58 1344 BIONDI,64	6703 SIALECKE,58	
C M4	1527 GEENK,5- 1601 DORMAN,60	0539 HAYAKAWA,55	N M3 1 0887 COURT,64		
I2	0526 FROST,59 0778 DORMAN,60	0708 FROST,40	N O 1 0920 DOERING,62 NE2 1 1344 BIONDI,64		
C CL4	0133 FOA,61 1231 CRAIG,52	0950 MARRIOTT,54	AR2 1 1344 BIONDI,64		
D2	0456 BAUER,47	3405 SCHAEFFER,5-	KR2 1 0254 RICHARDSON,52		
C2M4	0539 HAYAKAWA,55		CS2 1 0177 HAMMER,63		
S P6	0133 FOA,61		NE 1 1344 BIONDI,64		
B CL3	1110 MARRIOTT,57		DISSOCIATIVE RECOMBINATION		THEORETICAL
M202	1132 FUNKE,62				
C2M2	1224 STEVENSON,50		NORMALIZED		
M C N	1224 STEVENSON,50		M2 1 0368 RAUER,56	1665 WILKINS,66	
T	0465 SCHAEFFER,50		O2 1 0199 NISBET,63		
DISSOCIATIVE IONIZATION		THEORETICAL	N O 1 0199 NISBET,63 1487 GIBBONS,63	3570 SUQUINES,61	
RELATIVE					
M2	0362 STEVENSON,47 1144 DE LA RIVELLE,49	0364 DUNN,63	RADIATIVE CAPTURE		EXPERIMENTAL
O2	0348 STEVENSON,47		NORMALIZED		
RADIATIVE ATTACHMENT		EXPERIMENTAL	M 1 0241 FOWLER,59	8746 CRAIGIE,57	
NORMALIZED			AR 1 0395 HENTY,58	0669 NISBET,61	
M	0898 BRANSCOMBE,62	1000 BRANSCOMBE,62	NR 1 0904 NIESBET,61		
O	0838 BRANSCOMBE,62 1000 BRANSCOMBE,62	0898 BRANSCOMBE,62	RE 1 0904 NIESBET,61		
M8	1279 HEY,50		CS 1 1213 HOWLER,59		
O2	0898 BRANSCOMBE,62	1000 BRANSCOMBE,62	M2 1 0882 JOHNSON,58		
DISSOCIATIVE			RADIATIVE		
RADIATIVE			AP 1 0940 NIESBET,61		
ATTACHMENT			NR 1 0900 NIESBET,61		
CAPTURE			RE 1 0900 NIESBET,61		

	RADIATIVE CAPTURE	THEORETICAL	VIBRATIONAL EXCITATION	EXPERIMENTAL
<b>NORMALIZED</b>				
H 1	0146 BATES,67 0356 ZANSTRA,66 1010 STUECKELBERG,60	0263 BATES,70 0444 BATES,62 1414 LANE,64	D2 0260 ENGELHARDT,63 C2H4 1470 GEIGER,68	
HE 1	0715 BURGESS,60	0960 ZIRIN,60		
O 1	0243 BATES,39 1180 MASSEY,63	0034 BREENE,61	<b>RELATIVE</b>	
HO 9	0455 MILL,51		H2 0686 RAHLEN,31	
CA 1	0960 ZIRIN,62		N2 0898 MARRIES,67 0328 SCHULZ,59	0299 SCHULZ,63 1021 SCHULZ,62
FE 13	0455 MILL,51		N2O 0932 SCHULZ,61	
SR 1	0960 ZIRIN,62		C O2 1065 ROERSCH,64	
CS 1	1005 NORCROSS,66		C O 0998 MARRIES,27	0328 SCHULZ,59
<b>RELATIVE</b>				
H 1	0245 CILLIE,32		<b>VIBRATIONAL EXCITATION</b>	
<b>NORMALIZED</b>				
<b>ROTATIONAL EXCITATION</b>		EXPERIMENTAL	<b>THEORETICAL</b>	
<b>NORMALIZED</b>				
H2	0260 ENGELHARDT,63	1043 FROST,42	H2 0843 WU,67 0436 CARSON,54 0962 CHEN,62 1504 BREIS,65	0104 MASSEY,39 0726 TAKAYAMA,61 1488 TAKAYAMA,65
N2	0181 FROST,62 0316 ANDERSON,56	0218 ENGELHARDT,64	N2 0482 KERNER,53 1064 CHEN,64 1632 CHEN,66	0895 CHEN,64 1564 BREIS,65
D2	0260 ENGELHARDT,63		N2O 1470 GEIGER,68	
<b>RELATIVE</b>			C O2 1470 GEIGER,68	
H2	0842 BENNETT,42		C O 1504 BREIS,65	
<b>RELATIVE</b>			C2H4 1470 GEIGER,68	
<b>ROTATIONAL EXCITATION</b>		THEORETICAL	N2 1331 HERZEMBERG,62	
<b>NORMALIZED</b>				
H2	0392 GERJUOV,55 0702 DALGARNO,65 1052 TAKAYAMA,65 1666 BELTMAN,66	0434 CARSON,54 1093 TAKAYAMA,64 1973 SAMPSON,65 1816 OKSYUR,66	<b>DISSOCIATIVE ATTACHMENT</b>	
<b>NORMALIZED</b>				
O2	1477 TAKAYAMA,65 1666 BELTMAN,66 1816 OKSYUR,66	1800 TAKAYAMA,65 1676 SAMPSON,66	H2 0324 SCHULZ,59 0988 RAPP,66 1451 RAPP,65	0657 ENGLANDER-GOLDEN,64 1372 RAPP,66 1469 RAPP,65
A2	0481 GERJUOV,55 1082 AJOLNESS,66 1052 TAKAYAMA,65 1666 BELTMAN,66 1852 CHEN,66	0402 KERNER,53 1391 DALGARNO,63 1873 SAMPSON,65 1816 OKSYUR,66	O2 0131 CHANIN,59 0337 TOZER,59 0663 CRAGGS,57 0930 ABUMI,63 1040 RAPP,64 1200 SCHULZ,62 1505 CHRISTOPOROU,65	0134 BUCHDAHL,61 0765 BUCHELNIKHOVA,60 0661 PRASAD,61 1063 THOMPSON,63 1105 ENGLANDER-GOLDEN,64 1466 RAPP,65
H2O	0368 ALTHULER,57		HPO 0764 BUCHELNIKOVA,60	1016 MURST,61
N M3	0368 ALTHULER,57		N O 0900 RAPP,66 1666 RAPP,65	1105 ENGLANDER-GOLDEN,64
C O	0726 TAKAYAMA,65		HPO 1000 RAPP,66 1666 RAPP,65	1105 ENGLANDER-GOLDEN,64
<b>VIBRATIONAL EXCITATION</b>			C O2 0903 CRAGGS,66 0900 RAPP,66 1200 SCHULZ,62	0930 ABUMI,63 1105 ENGLANDER-GOLDEN,64 1666 RAPP,65
<b>NORMALIZED</b>			C O 0907 CRAGGS,66 0900 RAPP,66 1200 SCHULZ,62	0930 ABUMI,63 1105 ENGLANDER-GOLDEN,64 1666 RAPP,65
H2	0260 ENGELHARDT,63 1043 FROST,62	1000 SCHULZ,64	H CL 0764 BUCHELNIKOVA,60	
O2	1310 SCHULZ,62		I2 0134 BUCHDAHL,61 0664 BUCHELNIKOVA,60	0661 BUCHDAHL,61 1064 BUCHELNIKOVA,60
N2	0218 ENGELHARDT,64 0306 SCHULZ,64	0600 MAZI,67	N O 1601 RAPP,66	1666 RAPP,65
H2O	1470 GEIGER,68		O2 1272 RAPP,66 1666 RAPP,65	1601 RAPP,65
C O2	1470 GEIGER,68		I P6 3050 MICHAEL,66	1666 RAPP,65
C O	0904 SCHULZ,64			

	DISSOCIATIVE ATTACHMENT	EXPERIMENTAL	TOTAL SCATTERING	EXPERIMENTAL
NORMALIZED			NORMALIZED	
M 02 0776 FOX,60			M 0301 MAECKER,55	0322 BRACKMANN,54
M BR 0764 GUL'ELNIKOVA,59			0456 DRAVIN,56	0693 KOLSKIKO,62
S8 CL3 1270 BRON,63			5562 WIESE,63	0530 HAMMER,64
RELATIVE			1918 MEYER,61	
M2 0272 BRASEFIELD,29	1592 SCHULZ,65		M 0302 BRODE,25	0010 NORDHAN,30
02 0910 TATE,32	0187 MAGSTRUM,51		0077 MAYER,21	0273 RAMSAUER,21
0166 MUSCHLITZ,57	0167 MAGSTRUM,58		0076 RAMSAUER,21	0062 BRUCHE,27
3216 MAGSTRUM,61	0260 FITE,63		0084 RAMSAUER,29	0094 RAMSAUER,32
0341 FROST,59	0526 FROST,59		0116 FUCHTBACHER,34	0168 GREEN,33
0699 FROST,58	1525 FITE,65		0161 PALMER,31	0176 KOLLATH,28
02 0 9200 FITE,63			0186 RAMSAUER,23	1192 FRANCIS,67
M20 6018 TATE,32	0294 SJOBREK,63		0201 TOWNSEND,23	0233 DOUGAL,60
0324 SCHULZ,59	0483 COTTIN,59		0249 CHEN,61	0306 ANDERSON,55
0558 SCHULZ,66	0924 HANNA,67		0312 PHELPS,51	0314 SOULD,54
4657 KHVOSTENKO,58	1117 MUSCHLITZ,56		0317 ANDERSON,56	0454 DRAVIN,56
1709 TREPKA,63			0526 PACK,61	0504 BRAEFIELD,56
M 03 0924 HANNA,60			0637 LAMÉMIR,28	0019 BOYE,60
M 0 0218 TATE,32	0187 MAGSTRUM,51		0046 GOLDEN,65	0038 PHELPS,54
0216 MAGSTRUM,41	0483 CLOUTIER,59		0095 GOODMAN,37	1041 BULEVICZ,62
1263 FROST,58	1518 HANSON,37		1062 FROST,64	1348 GOLDEN,65
C2M2 0C18 TATE,32			1073 HARRIS,63	1489 CROMPTON,65
CL2 0526 FROST,59	0708 FROST,60		1501 KOZLOV,65	1786 KOZLOV,65
K20 0367 KAOI,58	0932 SCHULZ,61			
1067 CURRAN,61	1116 RUOOLPH,59			
C 02 0847 ASUNO,64				
C 0 0017 VAUGHAN,31	0018 TATE,32			
0167 MAGSTRUM,51	0216 MAGSTRUM,41			
0682 CLOUTIER,59	0667 TATE,32			
0941 FINEMAN,62				
B2 0708 FROST,61				
M CL 0699 FROST,58	1119 FOX,57			
1518 HANSON,37				
C M 1709 TREPKA,63				
I2 0467 FOX,58	0708 FROST,60			
1120 FROST,58				
P H3 1163 EBINGHAUS,64				
C CL4 0133 FOX,61	0950 HARRIOTT,54			
1231 CRAIGS,52				
C2M4 1709 TREPKA,63				
H F 0699 FROST,58				
C2M6 1709 TREPKA,63				
S F6 0133 FOX,61	0481 CLOUTIER,59			
0699 FROST,58	0971 CURRAN,61			
1239 AMEAR,63				
M I 0699 FROST,58				
B CL2 1118 HARRIOTT,57				
M BR 0699 FROST,58				
C2M2 1230 McDOWELL,52	1231 CRAIGS,52			
C F4 1231 CRAIGS,52				
O3 1066 CURRAN,61				
AS M3 1163 EBINGHAUS,64				
SI M4 1163 EBINGHAUS,64				
DISSOCIATIVE ATTACHMENT	THEORETICAL			
NORMALIZED				
M2 0207 CHEN,63				

	TOTAL SCATTERING	EXPERIMENTAL		TOTAL SCATTERING	EXPERIMENTAL
<b>NORMALIZED</b>					
CS 1	0764 BROOKE+33			C24	0605 BRUCHE+29
M6	0021 MAYER+32 0047 BROOKE+29 0117 FUC-TBAUER+35 0160 RAMSAUER+30 0172 RAMSAUER+27 0637 LAMHUIJSE+28 1744 HALL+ELL+26	0046 BROOKE+25 0069 ARNOT+39 0157 JONES+26 0161 PALMER+31 0590 MCUTC-CH+50 0675 SIMONS+38		0605 FORESTER+61	0283 BERNSTEIN+29
TL	0013 BROOKE+31			C24	0609 BRUCHE+30
M2	0001 BROOKE+25 0072 MAYER+21 0077 BRUCHE+26 0007 RAMSAUER+30 0094 RAMSAUER+32 0170 KOLLATH+28 0191 FROST+62 0166 BERNSTEIN+62 0199 TOSZKIN+22 0312 PHILIPS+51 0366 BEKEFI+58 0338 HAMMER+56 0405 FORESTER+61 1275 GOLDEN+65 1787 GOLDEN+66	0010 NORMAND+32 0073 RAMSAUER+21 0079 BRUCHE+27 0093 RAMSAUER+30 0160 BRUCHE+31 0175 SKINNER+31 0190 RAMSAUER+23 0195 TOSZKIN+21 0249 VARNER+51 0352 CROMPTON+52 0370 PACK+61 0437 LAMHUIJSE+28 1043 FROST+62 1507 QUBOVICI+66		S 02	0607 BAYES+62
C 02	0007 RAMSAUER+30 0259 BRUCHE+27 1046 ABERTH+64 1091 ABERTH+63	0195 TOSZKIN+21 0377 SILVERMAN+57 1577 DAIBER+65		C 03CL	0991 HOLST+31
A2	0001 BROOKE+25 0026 MAYER+63 0072 MAYER+21 0077 BRUCHE+26 0007 RAMSAUER+30 0181 FROST+62 0195 TOSZKIN+21 0312 PHILIPS+51 0352 CROMPTON+52 0357 LAMHUIJSE+28 0485 FORESTER+61 0446 ABERTH+64 1041 BALEVICZ+62 1473 HARRIS+63 1591 KOZLOV+65 1891 ABERTH+63	0010 NORMAND+30 0037 FISH+37 0073 RAMSAUER+21 0079 BRUCHE+27 0174 KOLLATH+28 0195 TOSZKIN+21 0218 ENGELHARDT+64 0216 ANDERSON+56 0238 PACK+61 0284 HAAS+57 0407 BATES+62 0902 STOTZ+63 1043 FROST+62 1577 DAIBER+65 1786 KOZLOV+65		M E	0469 HUMES+35
M20	0006 BRUCHE+29 0007 BATES+62	0439 PACK+62 1450 TAKED+66		M2	0126 RUSCH+25
M 03	0006 BRUCHE+29 0007 BATES+62	0439 PACK+62		K	0016 PEREL+62
M 0	0200 SKINNER+23	0259 BRUCHE+27		MR	0126 RUSCH+25
C242	0005 BRUCHE+29			CD	0180 MINOWSKI+23
CL2	0037 FISH+37	0602 BAILEY+35		M 0	0163 PEARSON+31 0404 KESSLER+65
M20	0093 RAMSAUER+30 0170 KOLLATH+28 0259 BRUCHE+27 0687 MAYES+62	0159 BAILEY+32 0200 SKINNER+23 0439 PACK+62		M2	0126 RUSCH+25 0171 ZACHMANN+27
C 02	0072 MAYER+21 0087 RAMSAUER+30 0096 RAMSAUER+32 0198 SKINNER+22 0330 PACK+62 0687 BATES+62	0001 RAMSAUER+27 0003 RAMSAUER+30 0174 KOLLATH+28 0259 BRUCHE+27 0685 FORESTER+61		C 02	1013 KEYNABED+61 0269 BLOCKLEY+24
C 0	0001 BROOKE+25 0087 RAMSAUER+30 0174 KOLLATH+28 0259 BRUCHE+27	0010 NORMAND+30 0096 RAMSAUER+32 0200 SKINNER+23 0439 PACK+62		TOTAL SCATTERING	THEORETICAL
BR2	0003 BAILEY+37			ME	0060 O'MALLEY+63
M CL	0000 BRUCHE+27			LI	2910 DANBURG+60
C 04	0001 BROOKE+25 0087 RAMSAUER+30 0174 KOLLATH+28 0259 BRUCHE+27 0973 FROMMHOLD+59	0004 BRUCHE+29 0009 BRUCHE+30 0192 FRANCIS+67 0685 FORESTER+61 1033 FINK+65		ME	0360 O'MALLEY+63
I2	0077 MEALEY+38			LA	0010 DANBURG+60
C CL4	0991 HOLST+31			AR	0060 O'MALLEY+63
D2	0188 BERNSTEIN+52 1375 GOLDEN+65 1787 GOLDEN+66	0439 PACK+62 1428 HALL+59		ME	0452 GUTZINSKI+59
				CS	0010 DANBURG+60 1202 ROBINSON+62
				I2	1023 SALOMON+61

## POSITION PAPERS

## IONIZATION

## THEORETICAL

## NORMALIZED

## TOTAL ELASTIC SCATTERING EXPERIMENTAL

H 0645 CHESHIRE+64

## NORMALIZED

H E 1196 HADDER+56  
 HE 1196 HADDER+56  
 AR 1196 HADDER+56

## TOTAL ELASTIC SCATTERING THEORETICAL

## NORMALIZED

H	0083 BURKE+63	0148 DANBURG+63
	0204 TEKIN+62	0496 SCHWARTZ+61
ME	0536 ROTENBERG+62	0769 NOIFINE+60
	0659 SMITH+61	0965 MASSEY+58
	0906 MOUSSA+59	0917 SPRUCH+60
	1015 SMITH+61	1023 KINGSTON+61
	1102 DRACHMAN+63	1210 NOISEWITSCH+58
	1422 MCCEACHERN+65	1443 NAME+60
	1494 ALLISON+61	1495 BRAYDEN+62
	1499 NAME+63	1500 KLEINMAN+65
	1571 STONE+66	1580 APSTEIN+65
	1938 KLEINMAN+65	
H *	0659 SMITH+60	
ME	0905 MASSEY+58	1121 MALIK+61
	1195 TEUTSCH+56	1405 WESTNER+65
	1494 ALLISON+61	1819 DRACHMAN+63
C	1121 MALIK+61	
H	1121 MALIK+61	
O	1121 MALIK+61	
F	1121 MALIK+61	
ME	0905 MASSEY+58	1121 MALIK+61
	1195 TEUTSCH+56	
AR	0905 MASSEY+58	1121 MALIK+61
	1195 TEUTSCH+56	
U	6 1519 SINGH+62	
H2	0905 MASSEY+58	

## DIFFERENTIAL ELASTIC SCATTERING THEORETICAL

## NORMALIZED

H	0698 SCHWARTZ+61	0536 ROTENBERG+62
	0544 NOISEWITSCH+59	0906 MOUSSA+59
ME	0544 NOISEWITSCH+59	

## ELECTRONIC EXCITATION THEORETICAL

## NORMALIZED

H	0083 BURKE+63	0148 DANBURG+63
	0659 SMITH+60	1257 NOISEWITSCH+65
H *	0659 SMITH+60	

## ELECTRON DETACHMENT THEORETICAL

## NORMALIZED

H = 0576 RUDGE+64

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BRUECKNER K A	85	89	289			CONNOR T R	1364
BUCHDAHL R	399					COOK C J	153
BUCHMELNIKOVA I S	134					COOLIDGE A S	987
BUCKINGHAM R A	766					COOPER J L	1874
BULEWICZ E M	70	243				COOPER J W	1057 1846
BULLARD E C	1041					CORINALDESI E	28
BUNDY F P	49	53	136	267		CORRIGAN S J B	336 354 1566
BUNYAN P J	39					COTTIN M	403
BUNCH D S	109	1424				COHAT R R	887
BURGESS A	38					CRAIBS J D	337 346 357 847 850
BURMOP E M S	57	417	715	735	892		861 885 887 938 940
BUNKE P G	140						948 950 1118 1231
BURKE V M	83	151	162	669	874	CRAWFORD C K	659
	910	1009	1015	1080	1340	CROMPTON R W	352 1489
	1436	1653	1846	1847		CROTHERS D	1532
BURNS J F	44	162	712			CROWN J C	1343 1897
BURTT B P	410	591				CROZIER W D	623
BYATT W J	347					CUNNINGHAM G M	1109
BYRON F W	388	597				CUNLEY E K	1512
CALLAWAY J	1788					CURRAN R K	133 971 1066 1067
CAPLINGER E	976	1342	1827			CUTHBERT J	1742
CARLETON N P	1268					CZYZAK S J	442 1932 1943
CARSON T R	992					DAHLER J S	311 555
CARTER C	434					DAIBER J W	1577
CERMAK V	421					DALBARNO A	416 436 440 702 1341
CHAMBERS G F	1572	1781				DAMBURG R	32 91 97 148 154
CHAMBERS G F	982	1304	1373	1417	1527		278 296 507 542 609
	1692	1693					648 810 835 836 856
CHAMPION K S W	698						1505 1550 1551 1552 1553
CHANDRASEKMAR S	287					DANCE D F	1803
CHANIN L M	131					DASHCHENKO A I	78
CHEN C L	182	249	739	1019		DEGEILH A	986
CHEN J C Y	207	895	962	964	1852	DEMELT H B	679
CHESHIRE I M	645					DEICHSEL H	1425 1427 1431 1896
CHIBISOV M I	818	1764				DEMOKOV Y N	457
CHILD E C	62	64	1286			DE HEER F J	1281 1690 1768 1782
CHOWDHURY A L	62					DE LA RIPELLE F	1144
CHOW R K M	1659					DE MARIA S	1578
CHRISTOPHOROU L G	1342					DE VISSER J G S	663
CHRISTOPH W	1565					DESPREZ-REBAUD S	461
CILLIE G	295					DEVORE R V	256
CIRIO I	200					DEVYATOV A N	474 607 795 1325 1833
CLARKE E M	142					DIBELER V H	466 526
CLARKE E M	854	1089	1809	1912		DIBELIUS N R	768
CLOUTIER G O	481					DOERING J P	920 1982
COCHRAN L W	685					DODD R T	261 264 987
COOTY W J	933						

DOLGOV S	753	754		FOX M A	1695	1767			
DONMAN P H	778	1066	1069	FOX R E	133	271	310	318	353
	1091				467	794	707	776	781
DORRESTEIN R	123	124			850	1064	1067	1119	1329
DOUGAL A A	233	703	1450	FRAKIN E E	1661				
DOWELL J T	1310			FRANCIS S A	192				
DRACHMAN R J	1192	1819		FRANKEN P	610				
DRAWIN M W	484	1044		FRANKLIN J L	340				
DUBOVIC L V	1967			FRASER P A	371	794	855	1022	1422
DUGAN J V	1272			FRENKIEL P	499	944			
DUKELSKII V N	957			FRISH S E	464	808	1233	1531	
DUNN G H	364	1501	1503	FROMMHOLD L	973				
DYMOND E G	3	253		FROST D C	361	523	526	526	699
EBINGHAUS H	1163			FROST L S	708	1120	1263		
EDELSTEIN L A	695			FUCHTBauer C	101	888	1043	1062	
EDMISTEN W C	190			FUHRMANN H	116	117	118		
EHRHARDT H	1470	1529	1588	FUNDINGSLAND O T	312	698			
EISSA H	1710			FUNK H	88				
EISSNER W	1560			FYODOROV V L	1575				
ELLENBAAS W	100	1148		GABATHULER E	334	338			
ELSASSER W	103			GABRIEL A H	886				
CHELEUS K B	1916			GAERTNER H	175				
EMMANUEL C B	1098			GAUF A P	164				
ENDE W	1153			GAILITIS M	296	609	648	835	1487
ENGELHARDT A G	218	260	292	GAJEWSKI T	1860				
ENGLANDER-GOLDEN	1105	1410	1459	GARRETT W R	592				
ENGLANDER P	16			GEALLE R	36	959	1498	1523	
ERSKINE G A	458			GEERK J	167				
FABRIKANT V	142	275		GEIGER J	527				
FAIRE A C	698			GEITSI I I	1065	1303	1478	1585	1597
					1812				
FAISAL F	1985			GELTMAN S	222	1534			
FANO U	362			GERJUOY E	38	244	390	415	533
FARNEN J	1742			GIBBONS J J	1093	1125	1452	1477	1660
FEENBERG E	221			GILARDINI A L	306	392	401	448	
FELDMAN P	773			GIMSH M	1031				
FELTSAN P V	1078	1503	1648	1823	1895	GILBODY M B	920		
FIELD F H	360			GLASER F M	612				
FIJNAUT H M	1570			GLICK R Z	1402				
FINEMAN M	941	1415	1508	GLOCKLER S	1919				
PINK X	1033			GOLANT V E	209	235			
PIQUET-FAYARD F	203	1124	1162	GOLDAN P D	1167	1530			
				GOLDEN D E					
FIRSOV O B	810			GOLDFINGER P					
FISCHER O	115			GOLDSTEIN L					
FISHER L	448			GODDARD H					
FISK J B	34	37		GOORICH H					
FITE W L	280	320	321	GOOSMANOV A P	322	323			
	320	332	1031	GOOSMANOV A P	324	326	327	327	366
FLAVIN R K	769	850	872	GOOSMANOV A P	316	317	1348		
FLEMING R J	518	871	1088	GOSSLER F					
FOGEL YA H	1841			GOULD L					
FOWER S N	1034	1132		GRAHAM W J					
FORESTER D W	685			GRAY E P					
FUJIKEN R S	241	762	912						

GREENBERG M	384	967	HENNFRERS W	653	655			
GREEN G V	335		HENRY R J H	702				
GREEN M C	160		HERZENROTHER R C	1001				
GROB V E	1270		HERRMANN O	988				
GROBLJEAN C C	838		HERTZ S	663				
GRYZINSKI M	452	570	HERZENBERG A	1331				
GUMA B K	1919		HEY W	1279				
GUIER D M	391		HICKAM W H	271	310	313	704	850
GUK SIN SAN	1325		HIGGINSON G S	818	871	1027	1080	
GURCHUNELIYA A D	1816		HILL E R	455				
GUREVICH U B	929		HILL S	1207				
GYFTOPoulos E P	1486		HIPPLE J A	213				
HAAS R	684		HIRSHFIELD J L	594				
HADEISHI T	205	1339	HOBART J	610				
HAFNER H	1586		HODGES M L	1094				
HAFT S	111		HOERNI J A	572				
HAUSTRUM M D	107	214	HOGNESS T R	1094				
HAHN Y	1443	1496	HOLST W	991				
HAIDT D	1538		HOLT H K	1928	1677	1892		
HALL B I M	1428		HOLT H B	802				
HAMMERLING P	407		HOLTSMARK J	99	104	105	991	
HANNER J M	177	538	HOOPER J W	1421	1590			
HANLE W	92	152	HOPWOOD W	346				
HANNAY N B	1239		HUANG K	297				
HANSEN L K	1063		HUANG S S	127				
HANSON E E	1510		HUBER P	1033				
HANSON H P	1089	1509	HUCK R J	500				
HANSON R J	522		HUDSON R L	1132				
HARA Y	408	463	HUGHES A L	20	23	27	165	669
HARXNESS R V	1096			628	629	726	1001	1004
HARNELL G P	158	230		1277	1294			
HARRIES W	98		HUGHES R H	554	707	1072		
HARRISON M	974		HUGHES V W	1195	1196			
HARRISON M F A	261	264	HUMMER D G	332	1037			
HARRIS L P	1473		HURST S S	1016	1305			
HARRIS W	409		HUSAIN D	1699				
HART R W	391		HUSTRULID A	924				
HARUN-AR-RASHID A	1905		HUTCHISON D A	1215				
HASHIMOTO T	505	649	HUZINABA E	462				
HASTED J B	1492		IDERS J A	872				
HASTINGS J M	465		INOKUTI H	210	1036			
HÄUPT C R	14		INUI T	248				
HAYAKAWA S	1123	1907	ITOLIN Y	1426				
HAYAKAWA T	530		ITOM T	705				
HEALEY R M	677	682	IYASH E V	370				
HEBB M	265		JAHODA F C	602				
HEDDLE D W O	819	866	JEFFERIES J T	963				
HEIDEMAN H G M	516	1417	JEN C K	2166				
HEIL M	1078	1827	JESSE V P	620				
HEILUND E J	669	1692	JMA R	1703	1704			
HENDERSON K R	1525		JOACHAIN C J	1644	1648	1700		
HENDRICKSON G G	1072		JOHN T L	416	899	1700		
			JOHNSON R A	802				

JONES E A	801	804	1265		KORCHEVOI YU P	132	1910			
JONES F L	1297				KOVAL A G	1841				
JONES H A	637				KOZLOV S I	1891	1786			
JONES T J	4	157			KRALL N A	448				
JONQUIERUS H H	170	318	513	544	KRASNOW M E	372	373	375	376	381
JORDAN E B	219	1002			KRAUS K	1103				
JORTNER J	1685				KRAUSS M	5	928			
JORY R L	1689				KRAVCHENKO V	810				
KALLMANN H	640				KROPP A	5				
KAMENETSKII V D	220	597	795		KROTMOV R	1526	1677			
KAMERO Y	1038	1039	1045		KRUEGER T K	442	1932	1943		
KANG I J	1707				KRUGER H	532	1538	1586		
KANOMATA I	1045				KRUITHOF A	270				
KAPTSOV M A	607				KUCHINKA M YU	752				
KAHLE J	875	983			KULANDER J L	1050				
KAR K C	670	1283			KUMAZAKI T	1987				
KARULE E H	148	644	990	1097	KUNNELL W B	759				
	1669	1491	1515	1542	KUPRIYANOV S E	713	723	1776		
	1864	1065			KURALOVA A V	474				
KATO T	362				KUREPA M V	743	938	1484		
KAY R B	554				KUYATT C E	308	692	1089	1347	1471
KEEFE W H	654					1527	1692	1693	1896	
KEESING R G W	1512				KYLE H L	904	998	1098		
KENTY C	395				LABAHN R W	976	1376	1627		
KERNER E H	394	402			LAMMANN H	1124				
KERR L W	1027				LAMO V E	227				
KESSLER J	480	1527			LANTYN J C	1030				
KESTNER H H	1485				LAMPE F W	340	1100			
KHARE S P	1407	1408	1493	1862	LANE F O	507				
KHASHGBA S	418				LANE H F	560	1231	1414		
KHVESTENKO V I	957				LANGHUIR I	637				
KIEFFER L J	364				LANGSTROTH G O	632	1298	1312		
KING N H	430				LARCHE K	105				
KINGSTON A E	146	350	444	567	LASHMORE-DAVIES C	1700				
	1025	1506	1995	1657		372	373	374	375	376
	1891			1694		377	378	379	380	381
KINNEY J D	1104					382	381	612	704	796
KISER R W	1137					799	800	801	803	804
KISHINO S H	363	475	782	797		813	857	1075	1091	1205
	1648			1047		1081	1010	1019	1059	1081
KISTEMAKER J	1201	1706	1702	1098		1567	1603	1679	1743	1820
KIVEL S	325	467	449	490	KLATNER I O	1804	1771	1910		
KIVELSON D	687				LATYPOV Z Z	713	723			
KJELDAAS T	310	784			LATYSHEFF G D	102				
KLEINMAN C J	1800	1988			LAUER J E	1697	1881			
KLEINPOPEN H	832	1538	1806	1803	LAUBON J	722	933			
KLEIN N H	309	399	1130		LAUBON K	722				
KNOX B E	307				LEE A H	636				
KOGAN V I	507				LEE E T P	1348				
KOLEBNIKOV V N	493				LEEDS J H	86	681			
KOLLATH P	36	87	93	94	LELLOP R	921				
	120	174			LEIBY C C	200				
KOLOS B	298	890			LEIPHARDT A	162	1270			
KOONS M C	1004				LEMANSKI C J	1600				
KOPPE V T	1041				LE GENTIL H C L	601				



MITTELMAN M H	983	1044	1445	1673		OBEDOV V D	1007
MOLNESS R C	1002	1573	1675			OBUKHOV-OBUKHOV V	403
MOFFETT R J	1341					OCHUR V I	349 718 935 1215 1543
MONIER F L	279	764	1213			ODERA H	561
MONA C S O	91	56	58	59	61	ODERIK T	468 469 532 561
	62	66	68	139	159	OLELLY L S	1016
	204	401	616			OKSTUK YU D	1016
NOISENWEISCH B L	249	798	251	367	398	OLDEMAN J	112
	403	438	459	466	471	OLDEMBORG O	992
	495	546	549	822	914	OLMSTED J	1301
	1024	1219	1297	1404	1493	OMALLEY T F	60 391 1084 1443 1490
	1494	1710	1770	1862		OMIDVAR K	337 553 648 1071 1656
						ONISHI U	432
MORAHAN J E	331					OPTIKHIN V	1413
MOORES D	1448					ORIENT O J	1017
MORAND H	661					ORMOND S	1718 1044 1059
MORRILIS N D	132					ORNSTEIN L S	160 210 112 268 269
MORRISON J D	242	778	1069	1069	1070	OSTENSEN F	229
	1107	2108	1244			OSTERBROCK D E	643
MORRISSET J J	919					OTSUKA H	1007
MORSE P H	25	106	639	1012		OTVOS J V	339
MOTT N F	48	136				PACK J L	439 530 888
MOUSSA A M	905	966				PALMER R R	21 161
MOUSTAFI H R	1690	1748	1762			PAVLOV S I	1001
MUNJAREE S C	513	1048	1199			PEACH B	873 1273 1299 1654 1655
MULLANEY B J	768					PEARSON J M	163
MULLER-OUTSING V	2163					PECUL K	238
MULLER F	1530					PEK Z H	1655 1445
MUMFORD A J P	859					PERKIN N P	1752
MURAVEV V T	977	981				PERNEY W S	19
MUSCHLITZ E E	366	2117				PERCIVAL E C	102 427 586 740
MUSA T	765					PEREL J	16 329
MYERSCOUGH V P	1102	1110	1299	1539	1569	PERRIN R	1257
NABAHARA S	421					PETERKOP R K	97 101 128 150 276
NAKAO T	7	33	136	135			507 542 829 852 856
NALL B H	1034						990 1120 1135 1469 1505
NARDONE N C	574	936					1515 1550 1552 1664 1905
NEUERT H	527	1163	1709				2002
NEU H	147					PETERSON J R	153 831
NEWBALL H F	41					PETERS T	305
NEWTON A S	1301					PETRINI D	1076
NEYNABER R	26	868	978	1013	1018	PETROCELLI A M	901
	1268					PETROV IV V	360
NICHOLSON A J C	242	778	1069			PETRUNIK A M	1115
NICOLL F H	58	59	63	66	137	PHELPS A V	131 181 218 260 292
NIERENBERG V A	1339						312 439 530 569 600
NIJIRA K	294						888 1043 1062 1467
NISBET J S	109					PHILBRICK J M	1090
NISHIMURA H	1123	1700	1838	1987		PIACEKIE V	1578
NOLAN J F	1467					PIKUS G E	149
NORCROSS D W	1005					PILYANKOVICH A N	864
NORMAND C E	10					PIRKU F N	822 1346
NORMAN G E	1039					POMLE R	503
NOTTINGHAM W B	40					POMILLA F R	445 828 1522
NOVICK R	773	1071					
NOVOBRAZBEV I V	560						
NUTT G L	897						

POTTER R P	1774	POTHE C V	26	666	978	1012	1018
PONTIUS J O	637	POZGACHEV K I	1266				
POTTIE R F	1687	RUBIN E	329				
POULTNEY F C	126	RUGGERS E	1197				
PRAMALLAGA RAO B	1742	RUDO J B	159				
PRASAD A H	661	RUDDE M R H	57	533	576	1044	1772
PRASAD K	642	RUDOLPH P	1116				
PRASAD S S	642 1262 1058	RUFFINE R S	709				
PREECE E R	1742	RUMJIC A J	734				
PRESNATCOV L	624 1061 1476 1013	RUSCH R	76	184			
PRESSLBY G A	1874	RUSSEK A	1363				
PRIESTLY M	293	SACRE V	393				
PRZHONSKII A N	1910	SALIZONO J A	1787				
PU R T	903	SALMONS A	499	1023	1052	1526	1587
QUINN T P	109	SAMPSON D H	1002	1973	1676		
RABIK L L	1576 1674 1856 1867 1868	SANDS R	610				
RAETHER H	182	SARAPH M	168	954	1025		
RAFF L H	1411	SASAKI M	7	33	130	135	
RAFIQULLAH A K	1659	SAYERS C A	662				
RAIDLE V	1593	SAYERS J	667				
RAKHOVSKII V I	1001	SCARLON J H	919	1056			
RAMIEH H	606	SCHAFFER O A	465				
RAMSAYER C	73 74 75 81 86 87 93 94 95 129 186	SCHAFFERNICK W	92	262			
RANDOLPH P L	167	SCHEIKH H	305				
RAPP D	968 1105 1164 1292 1372 1396 1410 1451 1459 1460	SCHENTER R E	1094				
RAY B B	920	SCHEY H H	83	151	918	1033	
REDKO T P	1750	SCHIFF H I	481				
REESSE R H	466 525	SCHONFELDER J L	1424	1646			
REICHERT E	1111 1427 1431 1596	SCHRAM B L	1281	1698	1705	1766	1768
REICH H J	1753	SCHROETER K	82				
REIMERS H J	110	SCHULTZ S	327	936			
REINMARDT P V	1565	SCHULZ B J	299	308	318	319	324 320
REITZ J R	359		517	529	558	932	
REVALD V F	1531 1584		950	1021	1090	1249	1319
RIBE F L	602		1592	1924			
RICE S A	1405	SCHULZ B	116				
RICHARDSON J H	254	SCHUTTEN J	1740	1782			
RIDLEY R O	428	SCHWARTZ C	447	490	908		
RIEDE D	303 384	SCHWARTZ S B	443	1772	1848	1849	
RIMMELT E A	556	SCOTT B L	1461				
RISK C J	216	SCOTT R	1075				
ROBBEN F	759	SEATON K J	155	160	464	412	410
ROBINSON B B	1463		422	431	453	484	533
ROBINSON L B	307 612 1282		505	712	714	715	719
ROBINSON P D	545		721	732	768	843	989
ROEMLING D	785		1023	1037	1448	1544	1832
MOSCOE R	45 1311	SEILER R	114				
ROSENBERG L	301 917 1084	SEMAN M L	639				
ROSE D C	1475	SEWARD R P	675				
ROTENBERG H	536	SHAPIRO J	828				
ROTHENSTEIN W	465	SHARP T E	1372	1481			
		SHAW C H	1191				
		SHELDON J H	1272				
		SHPELENKO F P	487				

SHERIDAN G F	992		SHERRINGS R F	326	332	331	3089
SHEVERA V S	504	1079	1648	SHIEGL H	1431	1596	
SHIELDS D H	822		STEINER B	839			
SHILOFF J C	300	1401	STEIN S	392	401		
SHIMON L L	506	1948	1079	1517	1648		
	1242	1603	1001	1972			
SHINE C H	407		STEVENS D	213	339	342	451
SHIREK D B	1077	1521	STEWART D T	333	334	338	953
SHIVETS O M	1507		STICKEL W	1905	1597		
SIEBERTZ K	810		STOMF P H	359	1571	1805	
SIL N C	515	1608	1703	1774			
SILVERMAN S H	372	373	374	374	377		
	376	379	381	794	798		
	799	800	803	857	1075		
	1091	1043	1743				
SIMONS J H	675		STOYZ K C	982			
SIMPSON J A	300	692	1085	1347	1373		
	1471	1527	1054				
SINGH S	1519		STUBER F A	1453			
SJOGREN H	296		STUECKELBERG E C	1010			
SKARBELE A	612	968	1418	1419	1481		
	1826	1687					
SKINNER H F	190	200	SUTTON D J	352			
SKINNER D G	350	549	1025	SWAN P	430	433	
SKINNER H	651		SWEENEY J P	564			
SKURICH V V	1047		SWICK D A	983			
SLOAN I H	845	1092	1302	TAIT J H	1416	1653	
SMIRNOV B H	1764		TAKAYANAGI K	724	1093	1452	1477
SMITH A C H	1268	1803		1500	1664		
SMITH K	83	600	859	896	933		
	1015	1022	1080	1345	1710		
SMITH L G	35		TAKEDA S	1450			
SMITH P T	18	216	224	225			
SMITH R A	1300		TALBOT L	759			
SMITH S J	28	922	1486	TATE J T	18	21	214
SMIT C	361	513	516	1570	216	667	
SMIT J A	223	315	361	513	516		
	546		TAYLOR A J	874	1416	1436	1524
SMYTH H	255		1536				
SNYDER T H	1191		TAYLOR J E	67			
SOPELMAN I	826	1061	TEMKIN A	204	403	498	503
SOLTSIK E A	492	510	521	706	904	908	1030
SOMERVILLE J H	683		TEUTSCH W B	1195			
SOMERVILLE W B	497	534	THALER R H	1894			
SOSHNIKOV A K	1680		THIENE O	108			
SPONER H	178		THOMAS J J	177			
SPNUCH L	301	917	1084	1463	1496		
	1499	1500	THOMPSON J B	943			
SQUIRES B E	579	1402	THOMPSON N	989			
STABLER R C	671		THONEMANN P C	261	204	997	
STACEY G H	1770		THORBURN R	337	853	956	
STAFFORD F E	1074		TIERS S R	70			
STANTON H E	331		TIEN P K	1094			
STANTON R L	564		TIETZ T	206	400	562	745
STAROSTIN A N	716		1176				
STAUFFER A D	307	1246	TISONE G C	1880			
STAVER T B	543		TOLK N	1871			
			TOPSCHINSKY H	1585			
			TOWNSEND J S	195	197	199	201
			TOZER B A	337	356	357	853
			865				
			TREFFTZ E	143	879	1046	1114

TREPKA L V	1789		WHITE D	635
TRUJILLO S M	26	860	WHITE E R	302
	1268	970	WHITE J V	280
TULLY J	773		WHITNEY J D	665
TUNITSKII N N	723		WIESE V L	502
ULMER R	932		WILKINS R L	1665
UNWIN J J	243		WILLIAMSON H A	1598
VAINSHTEIN L	754	826	WILLIAMSON J M	470 1254
	1546	1061		
	1013	1047		
		1074	WILLIAMS A	564
VALASER J	1275		WILLIAMS K L	1708
VAN DER KIEL F J	1281	1090	WILLIAMS S E	989 1296
VAN DE VALLE R T	838		WINTERS H F	1486
VAN EGMOND W	315		WITTING H L	1456
VAN REGENHOETER H	720	775	WITTHACK K	1478 1812
VAN VOORNIS C C	2		WOJCZAK L	206
VAN VOORNIS S H	173		WOLF R	880
VAN ZYL B	1501	1503	ZOMER R L	668
VARMERIK L J	240		WONG S C	687
VANSAVICK C	792	814	WOODCOCK A H	1284 1287
VAUGHAN A L	17		WOODHARD C E	659
VERLEENKO W A	560	716	WOODLEY R	923
VELDHE V	101	830	WOUDENBERG J P H	122 125
	1319	1926		
	1555	1576		
	1466	1582		
	1567	1676		
	1488		WU C S	1196
			WU T Y	43 368 567 1146 1190
WETTERLEIN P	96		YAKHONTOVA V E	464 477 1323
VINCENT D	421		YAMANDUCHI T	298 247 268 366 408
VINKALNS I ZH	864	1097		463 552
	1078	1879		
VOLKOVA L M	344	414	YAVORSKY B	202 272 281 202 557
	755	1533		783 977 1103
VON ENGEL A	336	354	YUREV V G	149
VOSMALL R E	439		YU F C	1146
VOSS K	113		ZACHMANN E	171
VREDENGEBRG V J	361		ZAITSEVA N G	1081
VREESWIJK J A	269		ZANSTRA H	358
VRIENS L	1060	1457	ZAPESOCHNYI I P	78 343 475 504 506
	1468	1594		808 882 1040 1076 1077
VRUBLEVSKAYA N A	1909			1078 1079 1233 1517 1521
WADDINGTON J F	1083			1582 1648 1680 1683 1801
WAHLIN H B	1752			1623 1695 1972
WAML J J	446		ZARE R H	1501 1503
WALDRON H F	1577		ZHIKHAREVA T V	1775 1853
WARREN J W	1230	1231	ZIESEL J P	283 1167 1530 1924
WATANABE H	365		ZIRIN H	443 980
			ZWICKY F	657